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Alexandria, VA 22310-3398



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**Johnston Atoll Plutonium Contaminated Soil
Cleanup Project
3rd Quarterly Report
7 Feb 94—30 Apr 94**

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November 1996

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Technical Report

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13. ABSTRACT (Maximum 200 words) TMA/Eberline is the prime contractor for the Defense Nuclear Agency (DNA), responsible for the operation and maintenance of the Johnston Atoll Plutonium Contaminated Soil Cleanup Project. During this production period, the Scope of Work included movement of soil to and from the plant, processing contaminated soil through the Segmented Gate System (SGS) and Soil Washing System, packaging of waste soil for shipment, identification and implementation of process improvements, data collection and validation, and compliance with all applicable regulations governing environmental safety and health. The SGS utilizes arrays of sensitive radiation detectors coupled with sophisticated computer software to segregate contaminated soil from a moving feed supply on conveyor belts. Contaminated soil is diverted to a "hot" path for plutonium particles greater than 5000 Becquerels or to a supplemental soil washing process designed to remove dispersed low level contamination from a soil fraction consisting of very small particles. Low to intermediate levels of contamination are removed from the soil to meet DNA's criteria for unrestricted use of less than 500 Becquerels per kilogram of soil, with no "hot" particles. The low level concentrate is expected to be packaged for shipment to an approved defense waste disposal site.				
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SUMMARY

The Johnston Atoll Plutonium Soil Cleanup Project (JAPCSCP) is a partnership between the Defense Nuclear Agency (DNA) and Thermo Analytical Inc. (TMA), whose goal is the environmental restoration of a 24 acre area of Johnston Atoll. This area was contaminated with Plutonium during atmospheric nuclear testing in 1962. The project utilizes a combination of innovative radiation measurement technology and proven mining processes to identify and segregate Plutonium particles dispersed in coral sand. This project will benefit island residents and the environment by removing a radioactive hazard and by restoring valuable land to beneficial use.

TMA has operated the JAPCSCP under a prime contract to DNA since 06 August 1993. This contract calls for the processing of 100,000 metric tons of radioactively contaminated soil. This report summarizes JAPCSCP production, plant modifications and maintenance activities for the third quarter of the contract period.

The third quarter of the contract consisted of the period from 07 February 1994 until 30 April 1994. During this period, a total of 10,154 metric tons of soil were processed. Authorized delays for the quarter totaled 1,611 sorter hours, or 402.75 regular hours, resulting in an adjusted production quota of 10,051 metric tons for this reporting period. The 103 metric tons in excess of quota processed this quarter brings the project to a total of 1,320 metric tons ahead of schedule.

CONVERSION TABLE

Conversion factors for U.S. Customary to metric (SI) units of measurement.

MULTIPLY -----> BY -----> TO OBTAIN
TO OBTAIN <----- BY <----- DIVIDE

cm	3.2808 E -2	ft
m ²	3.861 E -7	sq mile
cm ³	1.602 E -2	ft ³ /lb
g/cm ³	62.43	lb/ft ³
foot	3.048 000 X E -1	meter (m)
inch	2.540 000 X E -2	meter (m)
micron	1.000 000 X E -6	meter (m)
mil	2.540 000 X E -5	meter (m)
mile (international)	1.609 344 X E +3	meter (m)
liters/min	15.851	gal/hr
ounce	2.834 952 X E -2	kilogram (kg)
curie	3.700 000 X E 1	*giga Becquerel (GBq)
curies	3.7 E 10	dis/sec
curies	2.22 E 12	dis/min
curies	E 12	picocuries
Becquerel	2.703 E -11	curies
Becquerel	27.03	picocuries
rad (radiation dose absorbed)	1.000 000 X E -2	*Gray (Gy)

*The Gray (GY) is the SI unit of absorbed radiation.

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SECTION 1

INTRODUCTION

1.1 GENERAL.

The third quarterly report covers the period of 07 February 1994 to 30 April 1994. The report summarizes soil processing operations during the quarter and outlines major plant modifications and maintenance performed during the period.

1.2 SCOPE.

TMA is the prime contractor responsible for the operation and maintenance of the Johnston Atoll Plutonium Soil Cleanup Plant. Work scope for this project includes movement of soil to and from the plant, processing of contaminated soil through the Segmented Gate Sorter System (SGSS) and the Soil Wash System, packaging of waste soil for shipment, identification and implementation of process improvements, data collection and validation, compliance with all applicable regulations governing environmental safety and health, and preparation of documents and written reports for submittal to DNA.

1.3 OBJECTIVES.

The principal TMA objective is to process contaminated soil at the JAPCSCP in a manner that ensures the production quota is met and the best possible volume reduction is achieved. Other objectives of the project include continuously upgrading plant performance and insuring compliance with all applicable federal regulations.

1.4 PROJECT STAFF.

TMA is the prime contractor to DNA for operation and maintenance of the JAPCSCP. Permanently assigned project staff consists of the following positions:

PROJECT MANAGER

SITE MANAGER

QUALITY ASSURANCE/QUALITY CONTROL TECHNICIAN

HEALTH PHYSICS TECHNICIAN (2)

PLANT SUPERVISOR
PLANT ELECTRICIAN
TECHNICAL ASSISTANT
PLANT TECHNICIANS (4)

1.4.1 Personnel Assigned During This Period.

ASSIGNED

BROWN, M.	LAW, D.
CORDOVA, J.	LONG, D.
CORDOVA, L.	MONTANO, R.
DELOVATO, A.	PARKER, S.
DOANE, R.	RICHARDSON, J.
GRANT, R.	WOODS, J.
HELLIER, C.	

Other personnel or subcontractor personnel may be assigned periodically on a temporary basis.

1.4.2 Project Management.

Project management and contract administration is provided by TMA, Oak Ridge. On site supervision and soil processing operations are conducted by the Site Manager.

SECTION 2
PROJECT SCOPE

2.1 STATEMENT OF WORK.

DNA Contract No. DNA 001-93-C-0148, Attachment 1, Statement of Work for Plutonium Contaminated Soil Cleanup Plant Operation, 24 March 1993, contains the scope, background, and objectives of the Statement of Work. Applicable documents, requirements (tasks), plant operations maintenance, waste disposal, plant decommissioning, safety and health, and engineering drawings are topics listed in the Statement of Work.

2.2 GOVERNMENT FURNISHED SERVICES.

DNA Contract No. DNA 001-93-C-0148, Attachment 2, Government Furnished Services contains all equipment, material, and services the Government will provide to the Contractor to operate and maintain the soil cleanup plant.

2.3 MODIFICATION TO STATEMENT OF WORK.

There were no modifications to the Statement of Work during this quarter.

SECTION 3
PROJECT MANAGEMENT

3.1 TMA PROJECT MANAGEMENT.

Project Manager - R. W. Doane
Contracting Officer - D. M. Robie

3.2 DEFENSE NUCLEAR AGENCY.

Contracting Officer - Mr. D. Gonzales
Assistant CO - Ms. C. Kofa
Project Manager - MAJ J. Kimbrell
Project Engineer - MAJ M. Bower
Project NCOIC - SFC D. Richter

3.3 TMA PERSONNEL ON-SITE.

Site Manager - R. Grant
Plant Supervisor - J. Richardson
QA/QC - M. Brown
Technical Assistant - A. DeLovato
Health Physics Tech - J. Woods
Health Physics Tech - S. Parker
Electrician - J. Cordova
Plant Technician - L. Cordova
Plant Technician - D. Long
Plant Technician - D. Law
Plant Technician - R. Montano

SECTION 4
QUALITY CONTROL SAMPLING

4.1 QUALITY CONTROL SAMPLING.

Quality Control (QC) Sampling measurements verify that the soil sorting process is in control by identifying any activity levels in the clean pile which approach DNA's release criteria of 500 Bq/kg transuranic (TRU) activity, with no particles in excess of 5,000 Bq. QC measurements were made both by direct Field Instrument for the Detection Of Low Energy Radiation (FIDLER) surveys and by the collection of grab samples from the clean pile for analysis with a shielded chamber FIDLER. Grab samples collected were split, with the split sample being analyzed by on-site DNA staff for independent verification. Appendix A contains QC sample results.

4.2 DIRECT SURVEYS.

Direct FIDLER surveys of the pile were conducted at approximately two hour intervals during plant operations using a calibrated FIDLER probe and an Eberline ESP II Ratemeter. The instrument was calibrated for the detection of the 60 keV photon from AM-241 and then corrected for total TRU using a known ratio. No background in the area for this instrument is 200-300 dps. The alarm setpoint for the ESP II when performing these surveys is set at 500 dps. This setpoint is nearly a factor of 20 below the required action level, however, any particles which cause an alarm are removed from the pile. No discrete particles in excess of 5,000 Bq were detected by these surveys.

4.3 GRAB SAMPLING.

Grab samples are taken from each clean pile as it is created at approximately two hour intervals. Samples are split for independent verification by DNA and analyzed in the on-site laboratory. A pre-determined mass is weighed and sealed in a petri dish and then analyzed. Samples are counted using a Bicron FIDLER in shielded

chamber, connected to an Eberline MS-2 Mini Scaler. Sample count times were increased to 20 minutes this quarter to improve counting statistics.

As processing began for LE-1 soil, the average activity of clean pile samples increased. Eight samples were found to exceed the DNA criteria of 500 Bq/kg. In each case, a backup sample was taken upon receipt of the sample above criteria. Seven of the eight backup samples were below criteria. The pile from which two consecutive samples above criteria were taken was returned for reprocessing. The samples which exceeded 500 Bq/kg were routinely split to determine if the activity in the sample was due to the presence of a particle above 500 Bq but less than 5,000 Bq as opposed to distributed contamination; this proved to be the case in every instance.

SECTION 5
SAFETY AND HEALTH

5.1 SITE SAFETY AND HEALTH PROGRAM.

The JAPCSCP has implemented a Site Safety and Health Program which addresses the safety hazards expected on the project such as standard industrial safety practices for work around heavy equipment, heat stress and radiological safety. No hazardous chemicals are expected on the project. The primary radiological hazard expected on the project is internal exposure of workers to transuranic radioactive materials. In order to insure protection of workers and island residents, a comprehensive Air Sampling and Contamination Control Program has been put in place.

5.2 AIRBORNE RADIOACTIVITY MONITORING.

Air samples are taken continuously at various locations around the plant during operation and analyzed on site. Air samples results are compared to the Pu-239 "Y" retention class criteria provided in 10 CFR 20, Appendix B, Table 1. The Derived Air Concentration (DAC) value for this isotope and retention class is $7 \text{ E-12 } \mu\text{ci/ml}$. An administrative limit of 20% of the DAC value has been established to preclude the need for tracking DAC-Hours. Any areas which exceed 20% of the DAC value shall require a respirator for entry. Appendix B contains results for air samples performed during the quarter.

5.3 ROUTINE CONTAMINATION SURVEYS.

Weekly surveys were performed in building 795 for loose surface alpha contamination. No removable alpha contamination was noted by these surveys this quarter.

5.3.1 Daily FIDLER Surveys.

A scan survey is performed daily in all office, eating, drinking, smoking, and latrine areas in or adjacent to building 795. These surveys are performed using a calibrated FIDLER Probe with an Eberline

ESP II Survey Instrument set in the PHA mode with a 60 keV window to detect the AM-241 photon. Any activity noted which exceeds two times the background is recorded on the daily survey and remediated. No contamination was noted in the clean area this quarter.

5.4 PERSONNEL PROTECTIVE EQUIPMENT.

Personnel Protective Equipment (PPE) such as Anti-Contamination Clothing, Safety Shoes, Safety Glasses, Hard Hats and Hearing Protection are issued to each worker. Specific PPE requirements for each work situation are dictated on a case by case basis.

5.5 PERSONNEL MONITORING.

Personnel monitoring for internal exposure to Plutonium is accomplished through routine urine samples submitted to DNA to be forwarded to the US Air Force Radiological Health Laboratory. All samples submitted to date have contained less than minimum detectable Plutonium activity.

All personnel monitor for contamination prior to exiting the RCA or entering building 795. There were no personnel contaminations during the quarter.

5.6 RECORDS AND REPORTS.

Survey records are maintained on file at the TMA Project Office in Building 795.

SECTION 6
PLANT MODIFICATIONS AND MAINTENANCE

6.1 PLANT MODIFICATIONS.

Numerous plant upgrades were accomplished during this quarter in order to increase plant efficiency, reliability and improve worker safety. Various tests were also run in order to optimize plant operating conditions.

6.1.1 Safety Modifications.

TMA personnel continued to make modifications to the plant intended to improve worker safety. A belt guard was added to the Unit 3 and 4 Clean Stacker Motor. Work continued on items noted in a DNA safety inspection earlier in the year. Additional platforms were installed around Units 1 and 2 Charge Bins. Strips of belting material were attached to the Clean Stacker Discharges in order to minimize nuisance dust.

6.1.2 Mechanical Modifications.

Numerous mechanical improvements were made to the physical plant during the quarter. The most significant upgrade was the addition of the Hot Particle (HP) Belt to divert material containing hot particles from Units 1 and 2 to a truck, replacing the previous barrel and roller system. This required extensive modification to the conveyor parts available, including fabrication of a new motor mount, belt hood and alteration of belt length. Side boards were installed on the five ton dump truck initially used and cracks in the bed of the truck were weld repaired to prevent leakage. Problems were encountered with the drive chain and sprocket for the HP belt, requiring frequent repair.

Other modifications accomplished during this quarter included the installation of feed material guides on the sides on Units 1 and 2 Sorter Belts and the alteration of the Diversion Chutes on Units 3 and 4 to improve the flow of material. The roller system for barrels on Units 3 and 4 was also extended.

Modifications were also performed in support of plant testing. These included varying the height of the weir gate and side walls on the spiral classifier to test classifier performance at various flow rates, and the installation and removal of a temporary diversion chute to collect day bin material for testing through Units 3 and 4.

6.1.3 Electrical Maintenance.

Electrical maintenance was performed in support of plant modifications and as needed. Underground conduit was laid to supply the new HP belt. Wiring was also done on the belt and a controller for the belt was installed. Later in the quarter a short occurred in the controller requiring that it be replaced.

6.1.4 Routine Preventive Maintenance.

A regular preventive maintenance program was followed in order to minimize plant downtime. This program included daily and weekly lubrication of plant equipment, weekly cleaning of sorter belts and gates, and a weekly gate timing check. Corrosion control activities were performed on an as required basis. Sorter gate air hoses were replaced frequently as required. These hoses experience a high failure rate due to the harsh effects of the sun.

6.2 TESTING AND SPECIAL EVOLUTIONS.

A number of special evolutions or tests were performed during the quarter.

6.2.1 Settling Pond Sampling.

Samples of the settling pond sediment were obtained for radiological analysis. A grid system was set up to reference sample locations and a crane was brought in to provide access to the center of the ponds. Samples were collected from each grid, dried and analyzed for TRU content.

6.2.2 Settling Pond Sediment Removal.

Increased frequency of operation of the soil washing system (SWS) this quarter resulted in a rapid increase in the amount of sediment accumulated in the settling ponds. It was necessary to remove some of this material in order to maintain the required production rate for the SWS. TMA's subcontractor, Arrakis Inc., visited the island to review the wet-end set up and prepare a proposal for a system to dredge the ponds on an ongoing basis. Time constraints required that some interim measure be utilized to remove sediment until a dredging system is installed. In order to accomplish this the ponds were pumped down and material was removed using a backhoe and dump truck. The material was poured onto a concrete pad to dry. Enough material was removed in this fashion to allow continued operations of the SWS. The saturated slurry removed from the ponds was extremely difficult to handle and a large number of man hours were required to clean material spilled onto the ground.

6.2.3 Reprocessing of Distributed Contamination Material.

Reprocessing of screen classifier oversize material early in the quarter yielded a recovery rate of approximately 90%. A test was devised to verify that this recovery could be attributed to the washing process of the screw classifier and not to the improved counting statistics of sorting the distributed material a second time after removal of hot particles. A temporary chute was fabricated at the Hot Particle Diversion Gate to direct distributed contamination material to drums. Approximately 25 tons of material was collected and placed in the Feed Hopper for Units 3 and 4. The material was then run through Units 3 and 4 to determine recovery rates. Less than 5% of the material was found to meet DNA release criteria, indicating that the SWS process is effectively removing distributed contamination material from the day-bin material.

6.3 DOWN TIME.

Down Time is defined as that portion of the normal 60 hour per week work schedule in which soil processing is not accomplished due to plant maintenance or repair. Normal start-up and shut-down time, time

spent on modifications or testing required by DNA or other delay time authorized by DNA does not count as down time. There were 36.1 hours or 5% devoted to plant maintenance and unscheduled repairs this quarter. The contract requires that downtime be maintained less than 40%.

6.4 DAILY OPERATIONAL CHECKS.

Daily and weekly operational checks are performed on each unit in order to verify proper function of the system. Prior to start-up each day background count levels are checked on each sorter, a source check is performed on each individual detector to verify that it is functioning and a source check is run to verify that the gate actuates at the proper time to catch a simulated hot particle. The sorter belt speed is timed twice per day during operation to verify that it is within specification. Source checks are performed again twice per day during operation. Gate actuation times are checked each week and the sorter belts are checked each week and the sorter belts are washed down to prevent a gradual increase in background which would reduce system efficiency. Semiannual electronic calibrations and efficiency determinations are also performed to insure continued safe and efficient plant performance. These operational checks, combined with the daily clean pile surveys and samples discussed earlier, serve to provide quality assurance for the program.

SECTION 7
SOIL PRODUCTION

7.1 PRODUCTION TOTALS.

During the third quarter of the contract period, 10,154 metric tons of soil were processed. This total included 7,592 metric tons of soil which met DNA release criteria and 2,562 metric tons of soil which were diverted for further processing. The average weight reduction for soil processed this quarter was 74.8%. Detailed data on soil production for the quarter is included in Appendix C.

7.2 AUTHORIZED DELAYS.

Authorized delays include halts in soil processing due to inclement weather, performance of DNA required testing or modifications and non-availability of government furnished equipment. Weekly reports listed delay periods for each week as approved by the DNA Project Engineer. Delays for each week adjusted the contract specified production quota requirement of 1,900 metric tons weekly. Each sorter-hour of authorized delay reduced the weekly quota by 7.9 metric tons. For example, if rain resulted in a full days loss of production, then 40 sorter hours would be lost (4 sorters x 10 hour). This would result in a reduction of the weekly quota by 316 metric tons (40 sorter-hours x 7.9 tons per sorter per hour). Adjusted weekly quotas are depicted in Appendix B, Table 1 and Figure 1.

A total of 40.3 days were recorded during the quarter as authorized delays. The weekly production quota was adjusted to allow for authorized delays as approved by the on-site DNA Project Engineer.

7.3 PRODUCTION VERSUS QUOTA.

Total soil processed during the third quarter exceeded the adjusted quota for the period by 104 metric tons. The total production for the contract to date exceeds the adjusted contract quota by 1,321 metric tons.

7.4 PRODUCTION RECORDS.

Appendix C contains the daily production records for the third quarter, including the Daily Work History totals and the JA Soil Cleanup Log Overall Summary Report.

These records provide day-by-day information on plant operations and performance. Data detailing mass of soil processed as recorded by the computer and by the plants mechanical weigh scales is included. Comparison of these two sources continued to indicate some discrepancies, which we believe to be caused by varying density values for the various feed material sources. All weigh scales are scheduled for recalibration early in the fourth quarter, and a new procedure shall be implemented for soil density measurements in order to correct this problem.

Information on activity diverted indicated that the distribution of particle activity (which is an indicator of particle size) remained consistent with previous quarters. The total activity diverted for the quarter increased significantly. In the first quarter, a total of 2,193 MBq of activity was diverted. In the second quarter, 652 MBq activity was diverted. In the third quarter, as LE-1 soil began to be processed, 9,239 MBq of activity was diverted. It is anticipated that these levels will continue to be processed in subsequent quarters.

This high level of activity places the SGS near the limits of its capabilities. The high number of particles present in the field cause a large number of mass diverts, which reduces our volume production. This necessitates further processing to achieve the desired reduction. Possible alternatives include reprocessing the concentrated hot particle material using a dry screening process, diverting more material to the day bin for increased use of the SWS or slowing the belt speed on the SGS to improve counting statistics. These options will be explored more thoroughly in the future.

7.5 SUMMARY.

The Plutonium Soil Cleanup Project at Johnston Atoll continued to progress during the third quarter of the contract. The malfunction of the rock crusher resulted in a significantly reduced quota for the quarter, however, repairs should be completed during the fourth quarter. Numerous tests were conducted which provided substantial assistance in fine tuning plant operations.

As we move into the fourth quarter of the Project, significant progress has been made. We have gained valuable insight on how the plant will process the higher activity LE-1 soil and made good progress on soil production in relation to quotas. Challenges remaining include returning the rock crusher to service, implementation of the pond dredging system, development of methods to further volume reduce the hot particle material generated in LE-1 and preparation of waste for final shipment. We look forward to meeting these and other challenges as we continually seek to enhance project performance on the only full scale Plutonium Contaminated Soil Cleanup Project of its kind in the world.

ATTACHMENT 1

STATEMENT OF WORK

FOR

24 MAR 93

PLUTONIUM CONTAMINATED SOIL CLEANUP PLANT OPERATION

1.0 SCOPE

The required work is to maintain and operate the Johnston Atoll (JA) plutonium contaminated soil cleanup plant. It includes hauling soil to and from the plant, processing contaminated soil, removing clean soil, packaging waste, recommending and making process improvements, developing data to demonstrate the process is under control, operating safely and efficiently, and preparing written reports. It requires development and maintenance of a decommissioning plan and implementing the plan at project completion.

1.1 Background

a. The Defense Nuclear Agency (DNA) has built a unique plant to clean plutonium contaminated soil that is at Johnston Atoll (JA). The plant was constructed in 1989 and significantly improved in 1991. It combines conventional mining technology with sophisticated radiation detection equipment. By mining, most of the soil becomes suitable for use without radiological restrictions.

b. Johnston Atoll is 800 miles southwest of Honolulu, Hawaii. In 1962, nuclear weapon tests contaminated a significant portion of the island with plutonium. The contamination now is in a complex and uncertain pattern throughout a 24-acre area. It is present as both isolated point sources ("hot particles") and volume sources ("dispersed contamination") in otherwise clean soil. (Hot particles are much larger than particles making up dispersed contamination.) The soil enclosing the contamination totals about 100,000 cy.

c. The Government performs in situ radiological surveys to pinpoint the location of contaminated soil. It uses earth moving equipment to excavate the contaminated soil and haul it to a stockpile area downwind of the cleanup plant. It screens the soil to separate minus 1/2 inch from plus 1/2 inch. The oversize soil is inherently clean, but it must be reduced to minus 1/2 inch for processing through the plant to ensure it is clean. The contractor processes the plus 1/2 fraction through a crushing system in the stockpile area to reduce it to minus 1/2 inch. The crushed soil (mostly clean) is processed through the plant separate from the minus 1/2 inch soil (some contamination) to prevent cleanup by dilution.

d. The cleanup plant has two process paths. The Contractor feeds the minus 1/2 inch contaminated soil into a hopper at the start of path one. The hopper underflow conveys

beneath magnets to remove any steel rubble and onto a vibrating screen to remove any plus 0.5-in gravel which may be present. The minus 0.5-in soil splits and conveys in a thin layer on two 3-foot wide flat belts beneath radiation detectors. A computer processes radiation signals and controls the position of eight gates across each conveyor end. In one position a gate allows soil to fall to a conveyor for removal to a clean soil pile. In the other position a gate diverts soil to a "hot soil" conveyor for further processing. Each gate can remain in either position for as little as two seconds. These conveyor systems are called sorter 1 and sorter 2.

e. The hot soil conveyor has a single gate at its end. The computer gates soil with hot particles to a waste container and dispersed contamination through a surge bin to a spiral classifier. The classifier mixes water and soil, and it decants suspended fine particles while simultaneously draining and conveying coarse particles out of the classifier. The fine particles, rich with dispersed contamination, are pumped to a settling pond. Pond sediment can be removed and recycled or packaged as waste. The coarse and predominantly clean soil from the classifier is discharged to the ground for air drying and subsequent sorting to verify cleanliness.

f. The second process path also has a hopper, splitter, and two multi-gate soil sorters. These sorters are called sorter 3 and sorter 4. The Contractor uses this path primarily for processing crushed oversize soil and soil which has been washed of fines. The path is also used for special work such as reprocessing hot particle concentrate. The hot soil conveyor from sorters 3 and 4 connects to the conveyor which sends contaminated soil to the surge bin.

g. The plant has numerous weigh scales and mass and volume flow meters. It has speed controllers for precisely regulating speed of sorting conveyors, and controls for testing sorter gate response times. Soil density gages and feed soil radiation monitors are to be installed.

h. The plant is controlled from a computer console in an office adjacent to the plant. The computer records data on plant performance including summaries of radiation measurements every 20 seconds. Data are processed by personal computer and analyzed for assuring process control and material balance.

i. The improved mining plant was tested and made operational in 1992. To 13 Mar 93, 115 days were devoted to processing soil on a production basis. These 10-hr workdays averaged 1.9 hrs for plant startup, 6.0 hrs of processing, 1.4 hrs for shutdown, and 0.7 hrs for system pause. About 10,800 tons of soil were processed. This is equivalent to 8,600 cy of soil in the ground. The daily processing rate averaged about 94 tons, but the trend was increasing and several days exceeded 180 tons. All soil fed to the plant came from contaminated ground, and 98 percent was clean at less than 500 Bq/kg after processing. The average specific activity for clean soil was 59 Bq/kg. The plutonium recovered totalled 980 MBq and 300 mg. Performance statistics were developed from 270,000 radiation count records produced by the plant computer.

j. The plant is still being perfected. The computer program which controls gates has progressed to version 10.0. An independent verification and certification of the program identified some bugs and opportunities for program improvement. Some inconsistencies persist concerning material balance. Additional diagnostic instruments are needed. (Section 1.1.g.) The rock crushing system is being replaced. The JA environment is harsh, and the remote location creates logistics problems. Some research and development is in process, and the results may suggest the need for plant or cleanup process modifications.

k. The cleanup of plutonium contaminated soil at JA may be completed as early as 1995. The effort will eliminate a radiological hazard and improve the environment. The small amount of waste will be sent to an approved waste handling facility. The clean soil will be returned to the ground and used in construction projects for fill or bedding.

1.2 Objectives

This Statement of Work (SOW) lists specific tasks and services required by the Contractor in support of the Johnston Atoll plutonium contaminated soil cleanup project. The principal Contractor work involves processing contaminated soil through the soil cleanup plant.

2.0 APPLICABLE DOCUMENTS

a. Johnston Atoll TRU Soil Cleanup-Up Project, Assembly & Demonstration of the "TRUclean" Soil Clean-up Plant, (Phase One DRAFT), 17 Aug 89.

b. Johnston Atoll Plutonium Contaminated Soil Cleanup Project, Annual Report, Phase Two, Plant Modification, Performance Testing, and Operation, October 15, 1992.

c. Johnston Atoll Plutonium Contaminated Soil Cleanup Project, Annual Report, Option Period One, December 31, 1992.

d. Contamination Monitor Technical Manual for Johnston Atoll Conveyor System, TMA/Eberline, October 1991, Revised to version 8.0.

e. JA Soil Cleanup Plant Computer Source Code and Operations Manual.

f. JA Soil Cleanup Plant Project Management Plan.

g. JA Soil Cleanup Quality Assurance Plan.

h. JA Soil Cleanup Plant Operating Procedures.

i. Memorandum for TMA, Subject: Guidance for Plant Decommissioning and Maintenance, September 15, 1992.

j. JA Soil Cleanup Plant Decommissioning Plan.

3.0 REQUIREMENTS (TASKS)

The Contractor shall accomplish the tasks listed under the following task categories. The contractor shall revise the Project Management Plan to detail its approach to fulfilling these tasks and other contract requirements. (CDRL, 4)

3.1 Work Periods

a. Work will commence at Johnston Atoll within 15 days after contract award. A new contractor will have no more than two weeks at the work site for familiarization with the soil cleanup plant. Additional time will be allowed for a new contractor who cannot receive instruction from the incumbent contractor, or in the event the plant has been idle for an extended period at contract award and repairs or abnormal maintenance is necessary.

b. The normal workweek at Johnston Atoll will be from Monday through Saturday. Weekly production quotas stated below are for the period Monday through Saturday. The quotas will be prorated for short weeks due to holidays, plant modifications and modification tests approved by the DNA project manager which cause lost time, and at the start and end of operations as for the week when there is no more contaminated soil to process.

c. For determining weekly production and percent downtime (no production as a percent of available hours), (1) "production hours" are the greatest net sorting hours reported by the plant computer for sorter 1, sorter 2, or sorter 4, and (2) "available hours" are the actual work hours reduced by any hours for scheduled plant modifications and testing of modifications. "Net sorting hours" are obtained from the plant daily log summary after exclusion of records which do not reflect true production. Excluded records include those reported when the sorter conveyor is empty or when a system test is conducted.

3.2 Plant Operations

(For quantities with "tons" as a mass unit in this section, the ton is metric and equal to 1,000 kilograms (kg).)

a. Furnish equipment operators to haul soil from the feed-soil stockpile area and feed soil to the cleanup plant. Process soil through the plant until DNA decides there is no more soil to process. DNA will remove clean soil from the plant to the lay-down area toward the east of the plant.

(1) Process the minus ½-inch predominantly contaminated soil through sorter 1 and sorter 2. The minimum weekly production rate for both sorters is 900 tons total. (Section 3.1.) This rate applies for the type of soil which has been processed to date and which leads to a weight reduction over 90 percent.

(2) Process the plus ½-inch predominantly clean soil through sorter 4. This oversize soil is first crushed in the sizing/crushing system. The minimum weekly production rate for sorter 4 is 400 tons as long as there is a supply of crushed soil. (Section 3.1.)

(3) Remove hot soil diverted from the plant at the hot particle gate to a storage area for subsequent treatment. For hot soil not diverted, process soil through the washing loop to remove fine particles before the 80-ton surge tank fills. Remove the washed soil to a storage area for subsequent treatment.

(4) Reprocess soil from the storage areas in (3) above through sorter 3. Assay the concentrate after recycle and package for waste disposal. Sorter 3 may also be used to process crushed oversize soil to reduce backlogs and improve performance.

(5) Manage the settling ponds which receive fine soil removed by the soil washing loop. Remove sediment when necessary to prevent exceeding pond capacity. Assay the sediment and package for waste disposal. In the event research and development by others leads to a beneficial method for concentrating plutonium in sediment, process sediment by that method before packaging for waste disposal.

b. Maintain an efficient operation which has downtime for primary sorters 1 and 2 of less than 40 percent. (Section 3.1.)

c. Continue processing or reprocessing soil until waste mass is reduced to the point of diminishing returns where the cost of additional cleanup exceeds the cost of disposal or the waste mass is sufficiently small and concentrated that it may be stored securely on Johnston Island pending disposal at an approved transuranic element waste disposal facility. Based on the estimated volume of soil to be processed (100,000 cy or 125,000 tons), estimated disposal costs, and programmed budget, at least a 98 percent weight reduction overall is required. ("Weight reduction" is ratio of clean soil mass to process soil mass expressed as a percent.)

d. Produce definitive data on a regular basis to demonstrate the plant process is under control. Data shall include measured weights and volumes. If data do not show material balance, determine the cause and remedy the deficiency. (CDRL, 3)

e. Provide definitive data on a routine basis that clean soil meets contract specifications, production meets or exceeds quotas, time utilization holds downtime to less than 40 percent, and sorting records from the daily log are complete with inconsistencies either absent or being corrected. (CDRL, 3)

f. Revise and maintain plant operating procedures as necessary so the written procedures accurately state the steps necessary for operating the plant safely and properly. (Section 2.g.)

g. Revise and maintain the quality assurance (QA) plan (Section 2.f) as necessary to provide assurance the QA objectives, stated in the project management plan (section 2.e), are fulfilled in compliance with DOE Order 5700.6A. Obtain approval from the DNA project manager before implementing changes.

h. Perform other tasks as required to make soil cleanup efficient and satisfactory within the scope of this Statement of Work. (CDRL, 5)

3.3 Plant Maintenance

a. Maintain the plant including hardware and software. Provide personnel with adequate skills to identify and diagnose problems and correct the problems or cause them to be corrected.

b. Develop and implement a preventive maintenance and corrosion control program which aids in reducing plant downtime and repair costs, and extends plant life at least until the total inventory of JA contaminated soil is processed. Maintain all assigned government furnished property, including any which is inactive or removed from the plant and placed in storage at the operating site.

c. Maintain a spare parts inventory to minimize downtime. Identify critical spare parts, considering mean time between failures, by nomenclature, quantity, vendor, and estimated costs. Submit purchase requests for spare parts to the DNA project manager to avoid production delays due to lack of spare parts. Allow sufficient lead time on purchase requests for compliance with Federal Acquisition Regulations. Provide a list of suggested suppliers, estimated costs, and estimates of weight and cube for use in determining transportation costs. (CDRL 9, 10)

3.4 Plant Improvements

a. Evaluate ways to improve the plant as part of continuous process improvement. Present concepts to the DNA project manager for approval. (CDRL, 6) When approved, proceed with planning for the improvements.

b. For improvements which require procurement of components, prepare procurement packages listing salient features and minimum requirements, estimated costs, and suggested suppliers. Submit procurement packages to the DNA project manager for procurement. Allow sufficient lead time on purchase requests for compliance with Federal Acquisition Regulations. Provide estimates of weight and cube for use in determining transportation costs, and spare parts and support requirements. (CDRL, 9)

c. Develop schedules for implementing improvements and detail any support services and equipment needed for the implementation.

d. Continue to perfect the plant computer program and submit the revised code and software user's manual to the DNA project manager. (CDRL, 5)

3.5 Waste Disposal

a. Assay and package waste soil and other radioactive waste for transport and in compliance with Departments of Transportation (DOT) and Agriculture (USDA) rules and regulations.

b. Place any packaged waste soil in dry cargo freight containers or other storage facilities as directed by the DNA project manager for interim storage pending removal from JA.

c. Prepare shipping papers as required to transport waste soil from JA to a radioactive waste disposal facility. The papers should be complete and accurate to prevent penalty to DNA from violations of rules and regulations.

d. When directed by the DNA project manager, prepare documents as necessary for compliance with waste disposal regulations so that waste is accepted at the disposal facility without penalty to DNA due to violation of rules and regulations.

3.6 Plant Decommissioning

a. Revise as necessary the plant decommissioning plan so it is up to date and ready for implementation (Sections 2.h and 2.i.)

b. For components prematurely retired from the plant with useful life remaining, prepare the components for disposition when removed. Preparations may include decontamination, application of protective materials, packaging, and removal from the JA radiological controlled area.

c. When directed by DNA, implement the decommissioning plan. NOTE: Decommissioning is not expected until the JA plutonium contaminated soil cleanup project is complete.

3.7 Safety and Health

a. Provide for the safety of personnel within the radiological control area in compliance with the Occupational Safety and Health Standards, US Code of Federal Regulations, Title 29, Part 1910.

b. Maintain a radiation safety program to ensure control of contamination and personnel doses below limits and as low as is reasonably achievable.

3.8 Engineering Drawings

- a. Maintain a complete library of engineering drawings and instruction and service manuals for components of the plant at the work-site. (CDRL, 1) Update engineering drawings as necessary to show "as is" conditions.
- b. For plant modifications, develop engineering drawings (CDRL, 1).
- c. Maintain a current index of engineering drawings and manuals.

3.9 Reports

- a. Prepare and submit written work according to requirements of the contract data requirements list (CDRL). Reports including documents, logs, memoranda, correspondences, and other written materials are critical to ensuring success of the cleanup project. They must contain accurate and true data. They must be well organized and written in English with good grammar and style. Where deadlines exist, they must be submitted on time. (CDRL, 7)
- b. In addition to financial reports required elsewhere by the Contract, prepare Funds and Man-hour Expenditure Reports and submit to the DNA project manager and DNA contracting officer. (CDRL, 2)

ATTACHMENT 2

GOVERNMENT FURNISHED SERVICES

The Government will provide all equipment and material to operate and maintain the soil cleanup plant, and

- a. Furnish electricity and water service for the soil cleanup plant.
- b. Provide subsistence and quarters and related support for contractor personnel assigned full-time to the project.
- c. Provide billeting for occasional Contractor top management visitors. The contractor is to provide an estimate of travel to include number of individuals, how long, and purpose. Government transportation will be made available if necessary. (Costs are to be paid by Contractor.)
- d. Provide a fork-lift and front end loader capable of lifting palettes and other general work for use by contractor certified operators.
- e. Provide overall radiation safety support, exclusive of plant operations, to include protective clothing, respirators and equipment for plant personnel, liquid nitrogen to operate germanium detectors, and dosimetry services. (The cleanup contractor will be responsible for packaging contaminated clothing for disposal and for laundering noncontaminated protective clothing.)
- f. Provide repairs, common supplies as requested by the contractor (to exclude routine office supplies), and other support services as necessary and subject to the approval of DNA.
- g. Deliver contaminated soil to the vicinity of the cleanup plant feed point so as to sustain a rate of 1,000 tons per week.
- h. Remove clean soil from the plant service area and the RCA. As much as 2,000 tons may accumulate in piles at either stacker boom before it must be relocated.
- i. Provide containers and palettes as necessary for handling radioactive waste.

- j. Remove packaged radioactive waste from the RCA and load to ship for sealift to a CONUS disposal facility. A single shipment is expected at project completion.
- k. Grade and contour areas after contaminated soil has been removed for cleanup.
- l. Provide accounting services for on-island support.
- m. Provide routine US postal services. (Costs are to be borne by the Contractor.)
- n. Provide custodial services for office spaces in Building 795, the plant control facility.
- o. Provide available health services for Contractor personnel. (Costs are to be borne by the Contractor.)
- p. Provide available packing and crating service as requested by the Contractor and approved by DNA. This requirement is not expected to be frequent, but only in instances when plant components must be returned to vendors for repairs pertaining to the operations of the plant.
- q. Provide scheduling, ticketing, orders for AMC flights and other routine transportation services for Contractor personnel. (Costs are to be borne by the Contractor.)
- r. Provide services for transport of oversized waste containers as approved by DNA.
- s. Provide cargo palette service, including off and on loading of liquid nitrogen containers transported weekly between Hickam, AFB and JA.
- t. Provide aircraft cargo services for plant components (repair and replacement parts) as required.
- u. Provide routine services and general maintenance as necessary for Building 795 and grounds.
- v. Provide routine refuse disposal from the RCA.
- w. Provide JA internal mail distribution.

- x. Provide and maintain at least one telephone hookup in Building 795. Currently two numbers (2011 and 2033) are provided, and one is available for FAX transmission.
- y. Handle message traffic from the Contractor.
- z. Provide morale, welfare and recreation services for contractor personnel as provided for other island personnel.
- aa. Provide office furnishings within Building 795 as available and approved by DNA.
- ab. Provide POL for vehicle(s) operated by the Contractor.
- ac. Provide one van for contractor use to deliver and pickup supplies and perform other routine work.
- ad. Provide protective masks for contractor personnel as long as chemical agents are present on JA.

Appendix A

Quality Control Sample Results

QA SAMPLE RESULTS													
February 1994													
QA#	DATE	SAMPLE COUNTS	SAMPLE C.T.	SAMPLE WT. (kg.)	SAMPLE CPM	EFF.	BKG. CPM	BKG. C.T.	RESULTS Bq./kg.	STD. DEV.	MDA		
2065	01-Feb-94	539	10	0.1136	53.9	0.0666	52.0	10	104		76		
2066		477	10	0.1136	47.7	0.0666	52.0	10	76		76		
2067		512	10	0.1136	51.2	0.0666	52.0	10	76		76		
2068		506	10	0.1136	50.6	0.0666	52.0	10	76		76		
2069		498	10	0.1136	49.8	0.0666	52.0	10	76		76		
2070		490	10	0.1136	49.0	0.0666	52.0	10	76		76		
2071		516	10	0.1136	51.6	0.0666	52.0	10	76		76		
2072		482	10	0.1136	48.2	0.0666	52.0	10	76		76		
2073		505	10	0.1136	50.5	0.0666	49.1	10	95		74		
2074		569	10	0.1136	56.9	0.0666	49.1	10	112	92	74		
2075	02-Feb-94	508	10	0.1136	50.8	0.0666	49.1	10	99		74		
2076		543	10	0.1136	54.3	0.0666	49.1	10	75	90	74		
2077		499	10	0.1136	49.9	0.0666	49.1	10	86		74		
2078		508	10	0.1136	50.8	0.0666	49.1	10	99		74		
2079		506	10	0.1136	50.6	0.0666	49.1	10	96		74		
2080		429	10	0.1136	42.9	0.0666	49.1	10	74		74		
2081	02-Feb-94	496	10	0.1136	49.6	0.0666	52.1	10	76		76		
2082		504	10	0.1136	50.4	0.0666	52.1	10	76		76		
2083		523	10	0.1136	52.3	0.0666	52.1	10	79		76		
2084		503	10	0.1136	50.3	0.0666	52.1	10	76		76		
2085		502	10	0.1136	50.2	0.0666	52.1	10	76		76		
2086	03-Feb-94	484	10	0.1136	48.4	0.0666	52.1	10	76		76		
2087		529	10	0.1136	52.9	0.0666	52.1	10	88		76		
2088		500	10	0.1136	50.0	0.0666	52.1	10	76		76		
2089	04-Feb-94	502	10	0.1136	50.2	0.0666	51.3	10	76		76		
2090		418	10	0.1136	41.8	0.0666	51.3	10	76		76		
2091		513	10	0.1136	51.3	0.0666	51.3	10	76		76		
2092		517	10	0.1136	51.7	0.0666	51.3	10	82		76		
2093		557	10	0.1136	55.7	0.0666	51.3	10	141		76		
2094		551	10	0.1136	55.1	0.0666	51.3	10	132		76		
2095		534	10	0.1136	53.4	0.0666	51.3	10	107		76		

QA SAMPLE RESULTS													
February 1994													
QA#	DATE	SAMPLE COUNTS	SAMPLE C.T.	SAMPLE WT. (kg.)	SAMPLE CPM	EFF.	BKG. CPM	BKG. C.T.	RESULTS Bq./kg.	STD. DEV.	MDA		
2096	04-Feb-94	545	10	0.1136	54.5	0.0666	51.3	10	<	123			76
2097	05-Feb-94	523	10	0.1136	52.3	0.0666	48.4	10	<	131			74
2098		510	10	0.1136	51.0	0.0666	48.4	10	<	112			74
2099		587	10	0.1136	58.7	0.0666	48.4	10	<	148	92		74
2100		499	10	0.1136	49.9	0.0666	48.4	10	<	96			74
2101	07-Feb-94	553	10	0.1136	55.3	0.0666	50.9	10	<	140			75
2102		530	10	0.1136	53.0	0.0666	50.9	10	<	106			75
2103		496	10	0.1136	49.6	0.0666	50.9	10	<	75			75
2104		497	10	0.1136	49.7	0.0666	50.9	10	<	75			75
2105		482	10	0.1136	48.2	0.0666	50.9	10	<	75			75
2106		507	10	0.1136	50.7	0.0666	50.9	10	<	75			75
2107		554	10	0.1136	55.4	0.0666	50.9	10	<	142			75
2108		522	10	0.1136	52.2	0.0666	50.9	10	<	95			75
2109	08-Feb-94	533	10	0.1136	53.3	0.0666	52.5	10	<	88			77
2110		511	10	0.1136	51.1	0.0666	52.5	10	<	77			77
2111		545	10	0.1136	54.5	0.0666	52.5	10	<	106			77
2112		499	10	0.1136	49.9	0.0666	52.5	10	<	77			77
2113		509	10	0.1136	50.9	0.0666	52.5	10	<	77			77
2114		560	10	0.1136	56.0	0.0666	52.5	10	<	128			77
2115		548	10	0.1136	54.8	0.0666	52.5	10	<	110			77
2116		518	10	0.1136	51.8	0.0666	52.5	10	<	77			77
2117		519	10	0.1136	51.9	0.0666	53.4	10	<	77			77
2118		473	10	0.1136	47.3	0.0666	53.4	10	<	77			77
2119	09-Feb-94	567	10	0.1136	56.7	0.0666	53.4	10	<	126			77
2120		533	10	0.1136	53.3	0.0666	53.4	10	<	77			77
2121		502	10	0.1136	50.2	0.0666	53.4	10	<	77			77
2122		518	10	0.1136	51.8	0.0666	53.4	10	<	77			77
2123		494	10	0.1136	49.4	0.0666	53.4	10	<	77			77
2124		522	10	0.1136	52.2	0.0666	53.4	10	<	77			77
2125	10-Feb-94	493	10	0.1136	49.3	0.0666	51.5	10	<	76			76
2126		513	10	0.1136	51.3	0.0666	51.5	10	<	76			76

QA SAMPLE RESULTS													
February 1994													
QA#	DATE	SAMPLE COUNTS	SAMPLE C.T.	SAMPLE WT.(kg.)	SAMPLE CPM	EFF.	BKG. CPM	BKG. C.T.	RESULTS Bq./kg.	STD. DEV.	MDA		
2127	10-Feb-94	558	10	0.1136	55.8	0.0666	51.5	10	< 139		76		
2128		488	10	0.1136	48.8	0.0666	51.5	10	< 76		76		
2129		549	10	0.1136	54.9	0.0666	51.5	10	< 126		76		
2130		492	10	0.1136	49.2	0.0666	51.5	10	< 76		76		
2131		501	10	0.1136	50.1	0.0666	51.5	10	< 76		76		
2132		516	10	0.1136	51.6	0.0666	51.5	10	< 77		76		
2133	14-Feb-94	497	10	0.1136	49.7	0.0666	55.5	10	< 79		79		
2134		518	10	0.1136	51.8	0.0666	55.5	10	< 79		79		
2135	14-Feb-94	576	10	0.1136	57.6	0.0666	54.5	10	< 124		78		
2136		494	10	0.1136	49.4	0.0666	54.5	10	< 78		78		
2137	15-Feb-94	524	10	0.1136	52.4	0.0666	54.5	10	< 78		78		
2138		511	10	0.1136	51.1	0.0666	54.5	10	< 78		78		
2139		559	10	0.1136	55.9	0.0666	54.5	10	< 99		78		
2140		510	10	0.1136	51.0	0.0666	54.5	10	< 78		78		
2141		545	10	0.1136	54.5	0.0666	54.5	10	< 78		78		
2142		533	10	0.1136	53.3	0.0666	54.5	10	< 78		78		
2143	15-Feb-94	514	10	0.1136	51.4	0.0666	53.9	10	< 78		78		
2144		517	10	0.1136	51.7	0.0666	53.9	10	< 78		78		
2145	17-Feb-94	537	10	0.1136	53.7	0.0666	53.1	10	< 86		77		
2146		525	10	0.1136	52.5	0.0666	53.1	10	< 77		77		
2147		509	10	0.1136	50.9	0.0666	53.1	10	< 77		77		
2148		562	10	0.1136	56.2	0.0666	53.1	10	< 123		77		
2149		527	10	0.1136	52.7	0.0666	53.1	10	< 77		77		
2150		514	10	0.1136	51.4	0.0666	53.1	10	< 77		77		
2151	18-Feb-94	526	10	0.1136	52.6	0.0666	50.8	10	< 102		75		
2152		540	10	0.1136	54.0	0.0666	50.8	10	< 122		75		
2153		546	10	0.1136	54.6	0.0666	50.8	10	< 131		75		
2154		549	10	0.1136	54.9	0.0666	50.8	10	< 135		75		
2155	18-Feb-94	540	10	0.1136	54.0	0.0666	54.1	10	< 78		78		
2156	19-Feb-94	524	10	0.1136	52.4	0.0666	54.1	10	< 78		78		
2157		549	10	0.1136	54.9	0.0666	54.1	10	< 90		78		

QA SAMPLE RESULTS													
February 1994													
QA#	DATE	SAMPLE COUNTS	SAMPLE C.T.	SAMPLE WT. (kg.)	SAMPLE CPM	EFF.	BKG. CPM	BKG. C.T.	RESULTS Bq./kg.	STD. DEV.	MDA		
2158	19-Feb-94	523	10	0.1136	52.3	0.0666	54.1	10	<	78	78		
2159	26-Feb-94	519	10	0.1136	51.9	0.0666	49.5	10	<	110	74		
2160		547	10	0.1136	54.7	0.0666	49.5	10		75	91		
2161		519	10	0.1136	51.9	0.0666	49.5	10	<	110	74		
2162		565	10	0.1136	56.5	0.0666	49.5	10		100	92		
2163		653	10	0.1136	65.3	0.0666	49.5	10		227	95		
2164	28-Feb-94	498	10	0.1136	49.8	0.0666	51.8	10	<	76	76		
2165		561	10	0.1136	56.1	0.0666	51.8	10	<	139	76		
2166		562	10	0.1136	56.2	0.0666	51.8	10	<	141	76		
2167		568	10	0.1136	56.8	0.0666	51.8	10	<	150	76		
2168		620	10	0.1136	62.0	0.0666	51.8	10		146	95		
2169													
2170													
2171													
2172													
2173													
2174													
2175													
2176													
2177													
2178													
2179													
2180													
2181													
2182													
2183													
2184													
2185													
2186													
2187													
2188													

QA SAMPLE RESULTS													
March 1994													
QA#	DATE	SAMPLE COUNTS	SAMPLE C.T.	SAMPLE WT. (kg.)	SAMPLE CPM	EFF.	BKG. CPM	BKG. C.T.	RESULTS Bq./kg.	STD. DEV.	MDA		
2169	01-Mar-94	573	10	0.1136	57.3	0.0666	53.5	10	<	133		77	
2170		536	10	0.1136	53.6	0.0666	53.5	10	<	79		77	
2171		575	10	0.1136	57.5	0.0666	53.5	10	<	136		77	
2172		521	10	0.1136	52.1	0.0666	53.5	10	<	77		77	
2173		571	10	0.1136	57.1	0.0666	53.5	10	<	130		77	
2174	02-Mar-94	553	10	0.1136	55.3	0.0666	53.3	10	<	107		77	
2175		561	10	0.1136	56.1	0.0666	53.3	10	<	118		77	
2176		568	10	0.1136	56.8	0.0666	53.3	10	<	129		77	
2177		527	10	0.1136	52.7	0.0666	53.3	10	<	77		77	
2178		539	10	0.1136	53.9	0.0666	53.3	10	<	86		77	
2179	03-Mar-94	551	10	0.1136	55.1	0.0666	50.2	10	<	147		75	
2180		556	10	0.1136	55.6	0.0666	50.2	10		77	91	75	
2181		918	10	0.1136	91.8	0.0666	50.2	10		597	106	75	
2182		485	10	0.1136	48.5	0.0666	50.2	10	<	75		75	
2183		550	10	0.1136	55.0	0.0666	50.2	10	<	146		75	
2184	04-Mar-94	531	10	0.1136	53.1	0.0666	54.5	10	<	78		78	
2185		803	10	0.1136	80.3	0.0666	54.5	10		370	103	78	
2186		607	10	0.1136	60.7	0.0666	54.5	10		89	95	78	
2187		565	10	0.1136	56.5	0.0666	54.5	10	<	108		78	
2188	05-Mar-94	497	10	0.1136	49.7	0.0666	52.3	10	<	77		77	
2189	11-Mar-94	549	10	0.1136	54.9	0.0666	55.1	10	<	79		79	
2190		504	10	0.1136	50.4	0.0666	55.1	10	<	79		79	
2191		503	10	0.1136	50.3	0.0666	55.1	10	<	79		79	
2192		560	10	0.1136	56.0	0.0666	55.1	10	<	92		79	
2193	15-Mar-94	784	10	0.1136	78.4	0.0666	49.4	10		416	100	74	
2194		608	10	0.1136	60.8	0.0666	49.4	10		163	93	74	
2195		655	10	0.1136	65.5	0.0666	49.4	10		231	95	74	
2196		630	10	0.1136	63.0	0.0666	49.4	10		195	94	74	
2197	16-Mar-94	951	10	0.1136	95.1	0.0666	53.2	10		601	108	77	
2198		569	10	0.1136	56.9	0.0666	53.2	10	<	132		77	
2199		595	10	0.1136	59.5	0.0666	53.2	10		90	94	77	

QA SAMPLE RESULTS													
March 1994													
QA#	DATE	SAMPLE COUNTS	SAMPLE C.T.	SAMPLE WT. (kg.)	SAMPLE CPM	EFF.	BKG. CPM	BKG. C.T.	RESULTS Bq./kg.	STD. DEV.	MDA		
2200	16-Mar-94	588	10	0.1136	58.8	0.0666	53.2	10	80	94	77		
2201	17-Mar-94	512	10	0.1136	51.2	0.0666	49.5	10	<	99	74		
2202		662	10	0.1136	66.2	0.0666	49.5	10	239	96	74		
2203		911	10	0.1136	91.1	0.0666	49.5	10	597	105	74		
2204		606	10	0.1136	60.6	0.0666	49.5	10	159	93	74		
2205		560	10	0.1136	56.0	0.0666	49.5	10	93	91	74		
2206	18-Mar-94	560	10	0.1136	56.0	0.0666	53.7	10	<	111	78		
2207		567	10	0.1136	56.7	0.0666	53.7	10	<	122	78		
2208		503	10	0.1136	50.3	0.0666	53.7	10	<	78	78		
2209	19-Mar-94	538	10	0.1136	53.8	0.0666	48.5	10	76	90	74		
2210		546	10	0.1136	54.6	0.0666	48.5	10	87	90	74		
2211		591	10	0.1136	59.1	0.0666	48.5	10	152	92	74		
2212	21-Mar-94	562	10	0.1136	56.2	0.0666	49.8	10	92	92	75		
2213		679	10	0.1136	67.9	0.0666	49.8	10	260	96	75		
2214		551	10	0.1136	55.1	0.0666	49.8	10	76	91	75		
2215		534	10	0.1136	53.4	0.0666	49.8	10	<	128	75		
2216	22-Mar-94	577	10	0.1136	57.7	0.0666	49.9	10	112	92	75		
2217		599	10	0.1136	59.9	0.0666	49.9	10	143	93	75		
2218		566	10	0.1136	56.6	0.0666	49.9	10	96	92	75		
2219		603	10	0.1136	60.3	0.0666	49.9	10	149	93	75		
2220	23-Mar-94	529	10	0.1136	52.9	0.0666	52.9	10	<	77	77		
2221		578	10	0.1136	57.8	0.0666	52.9	10	<	149	77		
2222		549	10	0.1136	54.9	0.0666	52.9	10	<	106	77		
2223		807	10	0.1136	80.7	0.0666	52.9	10	399	103	77		
2224	24-Mar-94	633	10	0.1136	63.3	0.0666	54.0	10	133	96	78		
2225		583	10	0.1136	58.3	0.0666	54.0	10	<	141	78		
2226		566	10	0.1136	56.6	0.0666	54.0	10	<	116	78		
2227		578	10	0.1136	57.8	0.0666	54.0	10	<	134	78		
2228		594	10	0.1136	59.4	0.0666	54.0	10	<	157	78		
2229	25-Mar-94	543	10	0.1136	54.3	0.0666	48.6	10	82	90	74		
2230		548	10	0.1136	54.8	0.0666	48.6	10	89	90	74		

[illegible]

QA SAMPLE RESULTS													
April 1994													
QA#	DATE	SAMPLE COUNTS	SAMPLE C.T.	SAMPLE WT. (kg.)	SAMPLE CPM	EFF.	BKG. CPM	BKG. C.T.			RESULTS Bq./kg.	STD. DEV.	MDA
2247	01-Apr-94	1021	20	0.1136	51.1	0.0666	52.4	20	<	54		54	54
2248		1162	20	0.1136	58.1	0.0666	52.4	20		82		66	54
2249		1219	20	0.1136	61.0	0.0666	52.4	20		123		67	54
2250		1163	20	0.1136	58.2	0.0666	52.4	20		82		66	54
2251	02-Apr-94	1106	20	0.1136	55.3	0.0666	50.9	20		63		65	53
2252		1161	20	0.1136	58.1	0.0666	50.9	20		103		66	53
2253		1158	20	0.1136	57.9	0.0666	50.9	20		100		66	53
2254	05-Apr-94	1042	20	0.1136	52.1	0.0666	51.7	20	<	60			54
2255		1032	20	0.1136	51.6	0.0666	51.7	20	<	54			54
2256		1015	20	0.1136	50.8	0.0666	51.7	20	<	54			54
2257		1199	20	0.1136	60.0	0.0666	51.7	20		118		66	54
2258	06-Apr-94	1344	20	0.1136	67.2	0.0666	53.4	20		198		69	55
2259		1347	20	0.1136	67.4	0.0666	53.4	20		200		69	55
2260		1430	20	0.1136	71.5	0.0666	53.4	20		260		70	55
2261		1388	20	0.1136	69.4	0.0666	53.4	20		229		70	55
2262	07-Apr-94	1398	20	0.1136	69.9	0.0666	52.8	20		245		70	54
2263		1262	20	0.1136	63.1	0.0666	52.8	20		148		68	54
2264	08-Apr-94	1274	20	0.1136	63.7	0.0666	51.0	20		182		67	53
2265		1265	20	0.1136	63.3	0.0666	51.0	20		176		67	53
2266		1055	20	0.1136	52.8	0.0666	51.0	20	<	79			53
2267	09-Apr-94	1449	20	0.1136	72.5	0.0666	52.0	20		293		70	54
2268		1219	20	0.1136	61.0	0.0666	52.0	20		128		67	54
2269	11-Apr-94	1079	20	0.1136	54.0	0.0666	51.4	20	<	91			54
2270		1081	20	0.1136	54.1	0.0666	51.4	20	<	92			54
2271		1190	20	0.1136	59.5	0.0666	51.4	20		116		66	54
2272	11-Apr-94	1196	20	0.1136	59.8	0.0666	50.6	20		132		66	53
2273	12-Apr-94	1152	20	0.1136	57.6	0.0666	50.6	20		100		65	53
2274		1314	20	0.1136	65.7	0.0666	50.6	20		217		68	53
2275	13-Apr-94	1224	20	0.1136	61.2	0.0666	53.9	20		105		67	55
2276		1388	20	0.1136	69.4	0.0666	53.9	20		222		70	55
2277		1054	20	0.1136	52.7	0.0666	53.9	20	<	55			55
2278	14-Apr-94	1199	20	0.1136	60.0	0.0666	51.6	20		120		66	54

QA SAMPLE RESULTS													
April 1994													
QA#	DATE	SAMPLE COUNTS	SAMPLE C.T.	SAMPLE WT.(kg.)	SAMPLE CPM	EFF.	BKG. CPM	BKG. C.T.	RESULTS Bq./kg.	STD. DEV.	MDA		
2279	15-Apr-94	1222	20	0.1136	61.1	0.0666	50.1	20	158	66	53		
2280		2669	20	0.1136	133.5	0.0666	50.1	20	1195	85	53		
2281	15-Apr-94	1365	20	0.1136	68.3	0.0666	50.2	20	259	68	53		
2282		1358	20	0.1136	67.9	0.0666	50.2	20	254	68	53		
2283		1314	20	0.1136	65.7	0.0666	50.2	20	222	68	53		
2284	16-Apr-94	1559	20	0.1136	78.0	0.0666	50.2	20	398	71	53		
2285		1226	20	0.1136	61.3	0.0666	50.2	20	159	66	53		
2286		1265	20	0.1136	63.3	0.0666	50.2	20	187	67	53		
2287	18-Apr-94	1025	20	0.1136	51.3	0.0666	52.5	20	<	54	54		
2288		1153	20	0.1136	57.7	0.0666	52.5	20	74	66	54		
2289		1186	20	0.1136	59.3	0.0666	52.5	20	98	66	54		
2290		1152	20	0.1136	57.6	0.0666	52.5	20	73	66	54		
2291	19-Apr-94	1132	20	0.1136	56.6	0.0666	52.9	20	<	108	54		
2292		1380	20	0.1136	69.0	0.0666	52.9	20	231	69	54		
2293		2087	20	0.1136	104.4	0.0666	52.9	20	738	79	54		
2294		1425	20	0.1136	71.3	0.0666	52.9	20	263	70	54		
2295		1437	20	0.1136	71.9	0.0666	52.9	20	272	70	54		
2296	20-Apr-94	1280	20	0.1136	64.0	0.0666	55.3	20	125	69	56		
2297		1244	20	0.1136	62.2	0.0666	55.3	20	99	68	56		
2298		1189	20	0.1136	59.5	0.0666	55.3	20	60	67	56		
2299		1267	20	0.1136	63.4	0.0666	55.3	20	115	68	56		
2300	21-Apr-94	1564	20	0.1136	78.2	0.0666	52.0	20	376	72	54		
2301		1160	20	0.1136	58.0	0.0666	52.0	20	86	66	54		
2302		1168	20	0.1136	58.4	0.0666	52.0	20	92	66	54		
2303		1194	20	0.1136	59.7	0.0666	52.0	20	110	66	54		
2304	22-Apr-94	1183	20	0.1136	59.2	0.0666	53.4	20	82	67	55		
2305		1334	20	0.1136	66.7	0.0666	53.4	20	191	69	55		
2306		1469	20	0.1136	73.5	0.0666	53.4	20	288	71	55		
2307		3669	20	0.1136	183.5	0.0666	53.4	20	1865	97	55		
2308		4000	20	0.1136	200.0	0.0666	53.4	20	2102	100	55		
2309	22-Apr-94	1277	20	0.1136	63.9	0.0666	53.4	20	150	68	55		
2310		1291	20	0.1136	64.6	0.0666	53.4	20	160	68	55		

QA SAMPLE RESULTS													
April 1994													
QA#	DATE	SAMPLE COUNTS	SAMPLE C.T.	SAMPLE WT. (kg.)	SAMPLE CPM	EFF.	BKG. CPM	BKG. C.T.	RESULTS Bq./kg.	STD. DEV.	MDA		
2311		1273	20	0.1136	63.7	0.0666	53.4	20	147	68	55		
2312	23-Apr-94	1194	20	0.1136	59.7	0.0666	54.1	20	80	67	55		
2313		1164	20	0.1136	58.2	0.0666	54.1	20	59	67	55		
2314	25-Apr-94	1629	20	0.1136	81.5	0.0666	50.4	20	445	72	53		
2315	26-Apr-94	1292	20	0.1136	64.6	0.0666	55.5	20	131	69	56		
2316		1121	20	0.1136	56.1	0.0666	55.5	20	64		56		
2317		1055	20	0.1136	52.8	0.0666	55.5	20	56		56		
2318		1057	20	0.1136	52.9	0.0666	55.5	20	56		56		
2319	27-Apr-94	1056	20	0.1136	52.8	0.0666	51.4	20	74		54		
2320		1136	20	0.1136	56.8	0.0666	51.4	20	77	65	54		
2321		1317	20	0.1136	65.9	0.0666	51.4	20	207	68	54		
2322		1132	20	0.1136	56.6	0.0666	51.4	20	75	65	54		
2323	28-Apr-94	1104	20	0.1136	55.2	0.0666	54.2	20	70		55		
2324		1124	20	0.1136	56.2	0.0666	54.2	20	84		55		
2325		1090	20	0.1136	54.5	0.0666	54.2	20	59		55		
2326		1157	20	0.1136	57.9	0.0666	54.2	20	108		55		
2337 *	29-Apr-94	1150	20	0.1136	57.5	0.0666	55.0	20	92		55		
2338		1152	20	0.1136	57.6	0.0666	55.0	20	93		55		
2339		1147	20	0.1136	57.4	0.0666	55.0	20	90		55		
2340		1075	20	0.1136	53.8	0.0666	55.0	20	55		55		
2341		1303	20	0.1136	65.2	0.0666	55.0	20	146	69	55		
2342		1152	20	0.1136	57.6	0.0666	55.0	20	93		55		
2343		1176	20	0.1136	58.8	0.0666	55.0	20	111		55		
2344		1018	20	0.1136	50.9	0.0666	55.0	20	55		55		
2345	30-Apr-94	1165	20	0.1136	58.3	0.0666	53.9	20	62	67	55		
2346		1781	20	0.1136	89.1	0.0666	53.9	20	504	75	55		
2347		1134	20	0.1136	56.7	0.0666	53.9	20	96		55		
2348		1136	20	0.1136	56.8	0.0666	53.9	20	97		55		
2349		1265	20	0.1136	63.3	0.0666	53.9	20	134	68	55		
2350		1213	20	0.1136	60.7	0.0666	53.9	20	97	67	55		
*Sample numbers 2327 through 2336 omitted from numbering system													

Appendix B

Air Sampling Results

TMA/EBERLINE-JOHNSTON ATOLL GROSS ALPHA RADIOACTIVITY IN AIR TEST RESULTS FOR THE MONTH OF FEBRUARY 1994

THIS REPORT WAS REVIEWED BY: [Signature] DATE: 4 APR 94
JOHNSTON ATOLL SITE MANAGER

The current 10CFR PART 20 "Standards for Protection Against Radiation" limits of concentration in air for Pu-239 are as follows:

Occupational Limit = 7 E-12 uCi/ml

INSTRUMENT NO.1: MS-2/RD-14 SN: 354/407
CAL DUE DATE: 08/JUN/94
INSTRUMENT NO.2: ESP-2/43-1 SN:964/PR033568
CAL DUE DATE: 05/JUL/94
EFF INSTR NO.1 = 0.355 4 pi
EFF INSTR NO.2 = 0.258 4 pi
BKG COUNT TIMES = 50 min
SAMPLE CNT TIMES = 50 min

SITE NAME: JOHNSTON ATOLL
REPORT DATE: MAR/01/94
COMPILED BY: S. PARKER SP
J. WOODS

Sample Date	Count Date	Sample Time (min)	Flow Rate (cfm)	Sample Volume (liters)	Instr No.	Gross Bkg Cnt	Gross Sample Cnt	Reported Activity (uCi/ml)	2 Std Dev. +/-	Critical Level (uCi/ml)	Sample Area Description
01/FEB/94	04/FEB/94	150	16.5	7.01E+04	1	5	65	2.2E-14	5.9E-15	1.9E-15	SOUTH SIDE OF S1 #7219
01/FEB/94	04/FEB/94	417	16.2	1.91E+05	1	5	46	5.4E-15	1.9E-15	6.9E-16	SOUTH SIDE OF S1 #7219
01/FEB/94	04/FEB/94	420	15.6	1.86E+05	2	2	38	6.8E-15	2.3E-16	6.2E-16	S1/2 FEED BELT AREA #1082
01/FEB/94	04/FEB/94	148	17.7	7.42E+04	2	2	26	1.1E-14	4.9E-16	1.6E-15	S1/2 FEED BELT AREA #1082
01/FEB/94	04/FEB/94	144	13.8	5.63E+04	2	2	47	2.8E-14	8.5E-16	2.0E-15	WEST PERIMETER #7218
01/FEB/94	04/FEB/94	199	14.6	8.23E+04	2	2	34	1.4E-14	5.0E-16	1.4E-15	WEST PERIMETER #7218
01/FEB/94	04/FEB/94	113	9.2	2.94E+04	2	2	30	3.3E-14	1.3E-15	3.9E-15	DRESSER PAY LOADER #9112
01/FEB/94	04/FEB/94	133	8.7	3.28E+04	2	2	29	2.9E-14	1.2E-15	3.5E-15	DRESSER PAY LOADER #9112
01/FEB/94	04/FEB/94	103	9.2	2.68E+04	1	5	44	3.7E-14	1.3E-14	4.9E-15	DRESSER PAY LOADER #9112
01/FEB/94	04/FEB/94	131	9.2	3.41E+04	2	2	24	2.3E-14	1.0E-15	3.4E-15	DRESSER PAY LOADER #9112
01/FEB/94	04/FEB/94	138	9.2	3.60E+04	1	5	60	3.9E-14	1.1E-14	3.7E-15	DRESSER PAY LOADER #9112
01/FEB/94	04/FEB/94	91	14.7	3.79E+04	1	5	45	2.7E-14	9.3E-15	3.5E-15	S1/2 BARREL AREA #18083N
01/FEB/94	04/FEB/94	67	14.8	2.81E+04	2	2	29	3.4E-14	1.4E-15	4.1E-15	S1/2 BARREL AREA #18083N
02/FEB/94	05/FEB/94	116	16.4	5.39E+04	2	2	32	1.9E-14	7.4E-16	2.1E-15	SOUTH SIDE OF S1 #7219
02/FEB/94	05/FEB/94	251	16.2	1.15E+05	1	6	50	9.7E-15	3.2E-15	1.3E-15	SOUTH SIDE OF S1 #7219
02/FEB/94	05/FEB/94	138	16.4	6.41E+04	2	5	25	1.1E-14	5.8E-16	2.8E-15	SOUTH SIDE OF S1 #7219
02/FEB/94	05/FEB/94	232	17.3	1.14E+05	1	6	39	7.4E-15	2.9E-15	1.3E-15	S1/2 FEED BELT AREA #1082
02/FEB/94	05/FEB/94	358	16.6	1.68E+05	2	2	28	5.4E-15	2.2E-16	6.8E-16	S1/2 FEED BELT AREA #1082
02/FEB/94	05/FEB/94	142	13.6	5.47E+04	1	3	57	2.5E-14	7.0E-15	1.9E-15	WEST PERIMETER #7218
02/FEB/94	05/FEB/94	199	13.8	7.78E+04	2	2	35	1.5E-14	5.4E-16	1.5E-15	WEST PERIMETER #7218
02/FEB/94	05/FEB/94	248	13.6	9.55E+04	2	2	31	1.1E-14	4.1E-16	1.2E-15	WEST PERIMETER #7218
02/FEB/94	05/FEB/94	103	9.1	2.65E+04	1	6	46	3.8E-14	1.4E-14	5.5E-15	DRESSER PAY LOADER #9112
02/FEB/94	05/FEB/94	225	8.8	5.61E+04	1	6	59	2.4E-14	7.2E-15	2.6E-15	DRESSER PAY LOADER #9112
02/FEB/94	05/FEB/94	133	9.2	3.47E+04	1	6	54	3.5E-14	1.1E-14	4.2E-15	DRESSER PAY LOADER #9112
02/FEB/94	05/FEB/94	98	9.0	2.50E+04	2	2	21	2.7E-14	1.3E-15	4.6E-15	DRESSER PAY LOADER #9112
02/FEB/94	05/FEB/94	98	14.0	3.89E+04	2	2	33	2.8E-14	1.0E-15	3.0E-15	S1/2 BARREL AREA #18083N
02/FEB/94	05/FEB/94	69	14.3	2.79E+04	1	6	54	4.4E-14	1.4E-14	5.2E-15	S1/2 BARREL AREA #18083N

Sample Date	Count Date	Sample Time (min)	Flow Rate (cfm)	Sample Volume (liters)	Instr No.	Gross Bkg Cnt	Gross Sample Cnt	Reported Activity (uCi/ml)	2 Std Dev. +/-	Critical Level (uCi/ml)	Sample Area Description
02/FEB/94	07/FEB/94	78	14.8	3.27E+04	1	3	43	3.1E-14	1.0E-14	3.1E-15	S1/2 BARREL AREA #18083N
03/FEB/94	07/FEB/94	320	16.4	1.49E+05	1	3	52	8.4E-15	2.5E-15	6.9E-16	SOUTH SIDE OF S1 #7219
03/FEB/94	07/FEB/94	178	15.7	7.91E+04	2	5	32	1.2E-14	5.3E-16	2.3E-15	SOUTH SIDE OF S1 #7219
03/FEB/94	07/FEB/94	495	15.5	2.17E+05	2	5	34	4.7E-15	2.0E-16	8.4E-16	S1/2 FEED BELT AREA #1082
03/FEB/94	07/FEB/94	146	13.5	5.58E+04	1	3	47	2.0E-14	6.3E-15	1.8E-15	WEST PERIMETER #7218
03/FEB/94	07/FEB/94	178	13.6	6.86E+04	1	3	47	1.6E-14	5.1E-15	1.5E-15	WEST PERIMETER #7218
03/FEB/94	07/FEB/94	173	13.5	6.61E+04	1	3	46	1.6E-14	5.3E-15	1.6E-15	WEST PERIMETER #7218
03/FEB/94	07/FEB/94	95	9.0	2.42E+04	2	5	34	4.2E-14	1.8E-15	7.5E-15	DRESSER PAY LOADER #9112
03/FEB/94	07/FEB/94	195	8.7	4.80E+04	1	3	55	2.7E-14	7.9E-15	2.1E-15	DRESSER PAY LOADER #9112
03/FEB/94	07/FEB/94	93	8.7	2.29E+04	2	5	28	3.5E-14	1.7E-15	8.0E-15	DRESSER PAY LOADER #9112
03/FEB/94	07/FEB/94	138	9.3	3.63E+04	2	5	26	2.0E-14	1.0E-15	5.0E-15	DRESSER PAY LOADER #9112
03/FEB/94	07/FEB/94	154	14.3	6.24E+04	2	5	31	1.5E-14	6.6E-16	2.9E-15	S1/2 BARREL AREA #18083N
03/FEB/94	07/FEB/94	84	14.0	3.33E+04	1	3	46	3.3E-14	1.0E-14	3.1E-15	S1/2 BARREL AREA #18083N
04/FEB/94	08/FEB/94	212	16.4	9.85E+04	1	4	37	8.5E-15	3.2E-15	1.2E-15	SOUTH SIDE OF S1 #7219
04/FEB/94	08/FEB/94	509	16.2	2.34E+05	2	6	29	3.4E-15	1.7E-16	8.5E-16	SOUTH SIDE OF S1 #7219
04/FEB/94	08/FEB/94	211	16.5	9.86E+04	2	6	32	9.2E-15	4.3E-16	2.0E-15	S1/2 FEED BELT AREA #1082
04/FEB/94	08/FEB/94	392	17.1	1.90E+05	1	4	44	5.3E-15	1.8E-15	6.2E-16	S1/2 FEED BELT AREA #1082
04/FEB/94	08/FEB/94	271	13.1	1.01E+05	2	6	41	1.2E-14	4.7E-16	2.0E-15	WEST PERIMETER #7218
04/FEB/94	08/FEB/94	210	13.4	7.97E+04	1	4	50	1.5E-14	4.6E-15	1.5E-15	WEST PERIMETER #7218
04/FEB/94	08/FEB/94	121	13.3	4.56E+04	2	6	25	1.5E-14	8.4E-16	4.4E-15	WEST PERIMETER #7218
04/FEB/94	08/FEB/94	101	13.8	3.95E+04	2	6	30	2.1E-14	1.0E-15	5.1E-15	S1/2 BARREL AREA #18083N
04/FEB/94	08/FEB/94	102	14.3	4.13E+04	1	4	35	1.9E-14	7.5E-15	2.9E-15	S1/2 BARREL AREA #18083N
04/FEB/94	08/FEB/94	124	8.4	2.95E+04	1	4	46	3.6E-14	1.2E-14	4.0E-15	DRESSER PAY LOADER #9112
04/FEB/94	08/FEB/94	118	8.8	2.94E+04	2	6	38	3.8E-14	1.5E-15	6.8E-15	DRESSER PAY LOADER #9112
04/FEB/94	08/FEB/94	146	8.7	3.60E+04	2	6	29	2.2E-14	1.1E-15	5.5E-15	DRESSER PAY LOADER #9112
05/FEB/94	09/FEB/94	273	16.4	1.27E+05	2	4	31	7.4E-15	3.2E-16	1.3E-15	SOUTH SIDE OF S1 #7219
05/FEB/94	09/FEB/94	275	17.2	1.34E+05	1	6	53	8.9E-15	2.9E-15	1.1E-15	S1/2 FEED BELT AREA #1082
05/FEB/94	09/FEB/94	88	13.7	3.41E+04	1	6	42	2.7E-14	1.0E-14	4.2E-15	WEST PERIMETER #7218
05/FEB/94	09/FEB/94	126	13.5	4.82E+04	1	6	42	1.9E-14	7.2E-15	3.0E-15	WEST PERIMETER #7218
05/FEB/94	09/FEB/94	94	8.9	2.37E+04	1	6	52	4.9E-14	1.6E-14	6.1E-15	DRESSER PAY LOADER #9112
05/FEB/94	09/FEB/94	50	8.8	1.25E+04	2	4	31	7.6E-14	3.2E-15	1.3E-14	DRESSER PAY LOADER #9112
05/FEB/94	09/FEB/94	170	8.8	4.24E+04	1	6	47	2.5E-14	8.5E-15	3.4E-15	DRESSER PAY LOADER #9112
05/FEB/94	09/FEB/94	122	8.7	3.01E+04	2	4	25	2.4E-14	1.2E-15	5.4E-15	DRESSER PAY LOADER #9112
05/FEB/94	09/FEB/94	58	14.3	2.35E+04	2	4	40	5.4E-14	1.9E-15	6.9E-15	S1/2 BARREL AREA #18083N
05/FEB/94	09/FEB/94	88	14.8	3.69E+04	2	4	44	3.8E-14	1.3E-15	4.4E-15	S1/2 BARREL AREA #18083N
07/FEB/94	10/FEB/94	594	16.4	2.76E+05	2	7	36	3.7E-15	1.6E-16	7.8E-16	SOUTH SIDE OF S1 #7219
07/FEB/94	10/FEB/94	593	17.3	2.91E+05	1	1	51	4.4E-15	1.2E-15	2.0E-16	S1/2 FEED BELT AREA #1082
07/FEB/94	10/FEB/94	192	14.8	8.05E+04	2	7	33	1.1E-14	5.4E-16	2.7E-15	WEST PERIMETER #7218
07/FEB/94	10/FEB/94	202	13.7	7.84E+04	1	1	54	1.7E-14	4.7E-15	7.6E-16	WEST PERIMETER #7218
07/FEB/94	10/FEB/94	204	13.8	7.97E+04	2	7	33	1.1E-14	5.4E-16	2.7E-15	WEST PERIMETER #7218
07/FEB/94	10/FEB/94	176	8.8	4.39E+04	1	1	48	2.7E-14	7.9E-15	1.4E-15	DRESSER PAY LOADER #9112
07/FEB/94	10/FEB/94	138	8.9	3.48E+04	2	7	20	1.3E-14	1.0E-15	6.2E-15	DRESSER PAY LOADER #9112
07/FEB/94	10/FEB/94	133	8.8	3.31E+04	2	7	38	3.3E-14	1.4E-15	6.5E-15	DRESSER PAY LOADER #9112
07/FEB/94	10/FEB/94	60	13.5	2.29E+04	1	1	65	7.1E-14	1.8E-14	2.6E-15	S1/2 BARREL AREA #18083N
07/FEB/94	10/FEB/94	70	14.0	2.78E+04	1	1	47	4.2E-14	1.2E-14	2.1E-15	S1/2 BARREL AREA #18083N
07/FEB/94	10/FEB/94	62	13.5	2.37E+04	1	1	55	5.8E-14	1.6E-14	2.5E-15	S1/2 BARREL AREA #18083N
08/FEB/94	14/FEB/94	228	16.5	1.07E+05	2	8	32	7.9E-15	4.1E-16	2.2E-15	SOUTH SIDE OF S1 #7219
08/FEB/94	15/FEB/94	340	16.4	1.58E+05	2	8	40	7.1E-15	3.0E-16	1.5E-15	SOUTH SIDE OF S1 #7219
08/FEB/94	14/FEB/94	230	17.0	1.11E+05	1	2	51	1.1E-14	3.3E-15	7.6E-16	S1/2 FEED BELT AREA #1082
08/FEB/94	15/FEB/94	338	17.2	1.65E+05	1	5	47	6.5E-15	2.2E-15	8.0E-16	S1/2 FEED BELT AREA #1082
08/FEB/94	15/FEB/94	229	14.3	9.27E+04	2	8	32	9.0E-15	4.7E-16	2.5E-15	WEST PERIMETER #7218
08/FEB/94	14/FEB/94	181	14.0	7.18E+04	2	8	27	9.2E-15	5.6E-16	3.2E-15	WEST PERIMETER #7218

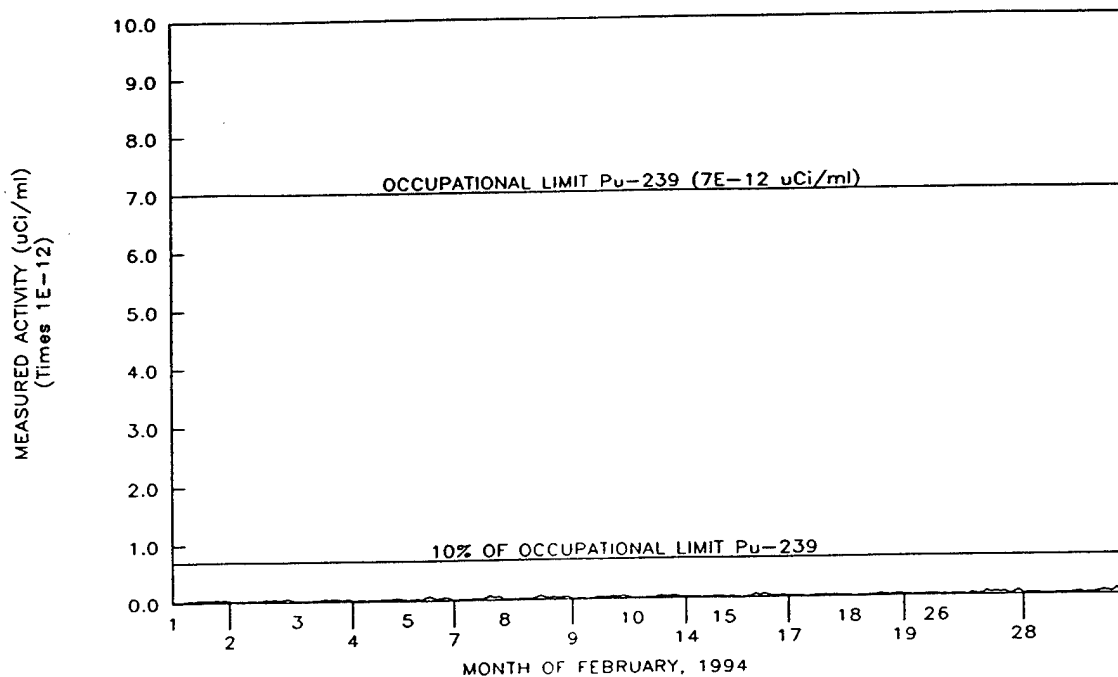
Sample Date	Count Date	Sample Time (min)	Flow Rate (cfm)	Sample Volume (liters)	Instr No.	Gross Bkg Cnt	Gross Sample Cnt	Reported Activity (uCi/ml)	2 Std Dev. +/-	Critical Level (uCi/ml)	Sample Area Description
08/FEB/94	14/FEB/94	156	14.1	6.23E+04	2	8	24	9.0E-15	6.2E-16	3.7E-15	WEST PERIMETER #7218
08/FEB/94	14/FEB/94	134	8.8	3.34E+04	1	2	45	3.3E-14	1.0E-14	2.5E-15	DRESSER PAY LOADER #9112
08/FEB/94	14/FEB/94	64	8.2	1.49E+04	1	2	43	7.0E-14	2.2E-14	5.6E-15	DRESSER PAY LOADER #9112
08/FEB/94	14/FEB/94	118	8.8	2.94E+04	1	2	41	3.4E-14	1.1E-14	2.8E-15	DRESSER PAY LOADER #9112
08/FEB/94	14/FEB/94	115	8.8	2.87E+04	2	8	27	2.3E-14	1.4E-15	8.0E-15	DRESSER PAY LOADER #9112
08/FEB/94	15/FEB/94	144	8.0	3.26E+04	1	5	65	4.7E-14	1.3E-14	4.1E-15	DRESSER PAY LOADER #9112
08/FEB/94	14/FEB/94	72	14.8	3.02E+04	1	2	39	3.1E-14	1.1E-14	2.8E-15	S1/2 BARREL AREA #18083N
08/FEB/94	14/FEB/94	50	14.0	1.98E+04	2	8	29	3.7E-14	2.1E-15	1.2E-14	S1/2 BARREL AREA #18083N
08/FEB/94	15/FEB/94	50	13.7	1.94E+04	1	5	46	5.4E-14	1.8E-14	6.8E-15	S1/2 BARREL AREA #18083N
09/FEB/94	15/FEB/94	245	16.4	1.14E+05	2	8	26	5.5E-15	3.5E-16	2.0E-15	SOUTH SIDE OF S1 #7219
09/FEB/94	15/FEB/94	325	16.4	1.51E+05	1	5	47	7.1E-15	2.4E-15	8.8E-16	SOUTH SIDE OF S1 #7219
09/FEB/94	15/FEB/94	242	16.3	1.12E+05	1	5	62	1.3E-14	3.6E-15	1.2E-15	S1/2 FEED BELT AREA #1082
09/FEB/94	15/FEB/94	336	13.8	1.31E+05	2	8	24	4.3E-15	2.9E-16	1.8E-15	WEST PERIMETER #7218
09/FEB/94	15/FEB/94	230	14.6	9.51E+04	2	8	27	7.0E-15	4.3E-16	2.4E-15	WEST PERIMETER #7218
09/FEB/94	15/FEB/94	112	8.8	2.79E+04	2	8	31	2.9E-14	1.5E-15	8.3E-15	DRESSER PAY LOADER #9112
09/FEB/94	15/FEB/94	126	8.6	3.07E+04	2	8	42	3.9E-14	1.6E-15	7.5E-15	DRESSER PAY LOADER #9112
09/FEB/94	16/FEB/94	145	8.7	3.57E+04	2	8	40	3.1E-14	1.3E-15	6.5E-15	DRESSER PAY LOADER #9112
09/FEB/94	15/FEB/94	92	8.4	2.19E+04	2	8	26	2.9E-14	1.8E-15	1.1E-14	DRESSER PAY LOADER #9112
09/FEB/94	15/FEB/94	98	8.6	2.39E+04	2	8	39	4.5E-14	2.0E-15	9.7E-15	DRESSER PAY LOADER #9112
09/FEB/94	15/FEB/94	100	14.0	3.96E+04	1	5	51	2.9E-14	9.4E-15	3.3E-15	S1/2 BARREL AREA #18083N
09/FEB/94	15/FEB/94	57	14.0	2.26E+04	1	5	48	4.8E-14	1.6E-14	5.9E-15	S1/2 BARREL AREA #18083N
09/FEB/94	15/FEB/94	55	14.2	2.21E+04	1	5	42	4.2E-14	1.5E-14	6.0E-15	S1/2 BARREL AREA #18083N
10/FEB/94	17/FEB/94	250	17.5	1.24E+05	1	6	48	8.6E-15	3.0E-15	1.2E-15	SOUTH SIDE OF S1 #7219
10/FEB/94	16/FEB/94	323	16.4	1.50E+05	2	8	33	5.8E-15	2.9E-16	1.5E-15	SOUTH SIDE OF S1 #7219
10/FEB/94	17/FEB/94	245	16.0	1.11E+05	2	4	39	1.1E-14	4.0E-16	1.5E-15	S1/2 FEED BELT AREA #1082
10/FEB/94	16/FEB/94	324	16.2	1.49E+05	2	8	36	6.6E-15	3.1E-16	1.6E-15	S1/2 FEED BELT AREA #1082
10/FEB/94	17/FEB/94	143	13.7	5.55E+04	1	6	41	1.6E-14	6.1E-15	2.6E-15	WEST PERIMETER #7218
10/FEB/94	17/FEB/94	300	14.8	1.26E+05	1	6	48	8.5E-15	2.9E-15	1.2E-15	WEST PERIMETER #7218
10/FEB/94	16/FEB/94	129	13.5	4.93E+04	1	4	70	3.4E-14	8.7E-15	2.4E-15	WEST PERIMETER #7218
10/FEB/94	16/FEB/94	135	8.7	3.33E+04	1	4	52	3.7E-14	1.1E-14	3.6E-15	DRESSER PAY LOADER #9112
10/FEB/94	17/FEB/94	105	9.0	2.68E+04	2	4	27	3.0E-14	1.4E-15	6.1E-15	DRESSER PAY LOADER #9112
10/FEB/94	17/FEB/94	122	8.1	2.80E+04	1	6	50	4.0E-14	1.3E-14	5.2E-15	DRESSER PAY LOADER #9112
10/FEB/94	16/FEB/94	123	8.6	3.00E+04	1	4	54	4.2E-14	1.3E-14	4.0E-15	DRESSER PAY LOADER #9112
10/FEB/94	17/FEB/94	75	14.3	3.04E+04	2	4	21	2.0E-14	1.1E-15	5.4E-15	S1/2 BARREL AREA #18083N
14/FEB/94	17/FEB/94	180	16.2	8.26E+04	1	6	40	1.0E-14	4.1E-15	1.8E-15	SOUTH SIDE OF S1 #7219
14/FEB/94	17/FEB/94	240	17.0	1.16E+05	1	6	52	1.0E-14	3.3E-15	1.3E-15	SOUTH SIDE OF S1 #7219
14/FEB/94	17/FEB/94	183	16.4	8.50E+04	2	4	27	9.4E-15	4.5E-16	1.9E-15	S1/2 FEED BELT AREA #1082
14/FEB/94	17/FEB/94	237	16.3	1.09E+05	2	4	23	6.1E-15	3.3E-16	1.5E-15	S1/2 FEED BELT AREA #1082
14/FEB/94	17/FEB/94	197	13.8	7.70E+04	2	4	21	7.7E-15	4.4E-16	2.1E-15	WEST PERIMETER #7218
14/FEB/94	17/FEB/94	224	13.8	8.75E+04	1	6	41	1.0E-14	3.9E-15	1.7E-15	WEST PERIMETER #7218
14/FEB/94	17/FEB/94	122	12.4	4.28E+04	2	4	25	1.7E-14	8.6E-16	3.8E-15	DRESSER PAY LOADER #9112
14/FEB/94	17/FEB/94	129	8.4	3.07E+04	2	4	27	2.6E-14	1.2E-15	5.3E-15	DRESSER PAY LOADER #9112
15/FEB/94	18/FEB/94	159	16.4	7.38E+04	1	6	39	1.1E-14	4.5E-15	2.0E-15	SOUTH SIDE OF S1 #7219
15/FEB/94	19/FEB/94	228	16.7	1.08E+05	2	2	27	8.1E-15	3.4E-16	1.1E-15	SOUTH SIDE OF S1 #7219
15/FEB/94	18/FEB/94	190	18.1	9.74E+04	1	6	50	1.1E-14	3.8E-15	1.5E-15	SOUTH SIDE OF S1 #7219
15/FEB/94	18/FEB/94	250	16.4	1.16E+05	2	3	27	7.2E-15	3.2E-16	1.2E-15	S1/2 FEED BELT AREA #1082
15/FEB/94	18/FEB/94	450	15.5	1.98E+05	2	3	19	2.8E-15	1.6E-16	7.1E-16	S1/2 FEED BELT AREA #1082
15/FEB/94	19/FEB/94	326	13.8	1.27E+05	2	2	32	8.2E-15	3.1E-16	9.0E-16	WEST PERIMETER #7218
15/FEB/94	18/FEB/94	250	13.8	9.77E+04	1	6	44	9.9E-15	3.6E-15	1.5E-15	WEST PERIMETER #7218
15/FEB/94	18/FEB/94	95	8.6	2.31E+04	2	3	39	5.4E-14	1.9E-15	6.1E-15	DRESSER PAY LOADER #9112
15/FEB/94	18/FEB/94	165	8.8	4.11E+04	1	6	48	2.6E-14	8.9E-15	3.5E-15	DRESSER PAY LOADER #9112
15/FEB/94	18/FEB/94	115	8.8	2.87E+04	2	3	49	5.6E-14	1.7E-15	4.9E-15	DRESSER PAY LOADER #9112

Sample Date	Count Date	Sample Time (min)	Flow Rate (cfm)	Sample Volume (liters)	Instr No.	Gross Bkg Cnt	Gross Sample Cnt	Reported Activity (uCi/ml)	2 Std Dev. +/-	Critical Level (uCi/ml)	Sample Area Description
15/FEB/94	18/FEB/94	120	8.8	2.99E+04	2	3	25	2.6E-14	1.2E-15	4.7E-15	DRESSER PAY LOADER #9112
15/FEB/94	18/FEB/94	120	14.5	4.93E+04	1	6	32	1.3E-14	6.2E-15	2.9E-15	S1/2 BARREL AREA #18083N
15/FEB/94	18/FEB/94	125	15.6	5.52E+04	1	6	44	1.7E-14	6.4E-15	2.6E-15	S1/2 BARREL AREA #18083N
15/FEB/94	19/FEB/94	95	16.5	4.44E+04	1	7	51	2.5E-14	8.5E-15	3.5E-15	S1/2 BARREL AREA #18083N
17/FEB/94	21/FEB/94	232	16.4	1.08E+05	1	7	47	9.4E-15	3.4E-15	1.5E-15	SOUTH SIDE OF S1 #7219
17/FEB/94	21/FEB/94	130	17.2	6.33E+04	1	7	48	1.6E-14	5.8E-15	2.5E-15	SOUTH SIDE OF S1 #7219
17/FEB/94	21/FEB/94	217	16.4	1.01E+05	2	7	37	1.0E-14	4.5E-16	2.1E-15	SOUTH SIDE OF S1 #7219
17/FEB/94	21/FEB/94	135	16.2	6.19E+04	1	7	25	7.4E-15	4.5E-15	2.5E-15	S1/2 FEED BELT AREA #1082
17/FEB/94	21/FEB/94	444	16.3	2.05E+05	2	7	35	4.8E-15	2.2E-16	1.1E-15	S1/2 FEED BELT AREA #1082
17/FEB/94	22/FEB/94	260	14.4	1.06E+05	2	5	25	6.6E-15	3.5E-16	1.7E-15	WEST PERIMETER #7218
17/FEB/94	21/FEB/94	133	13.7	5.16E+04	1	7	55	2.4E-14	7.6E-15	3.0E-15	WEST PERIMETER #7218
17/FEB/94	21/FEB/94	199	8.4	4.73E+04	1	7	37	1.6E-14	7.0E-15	3.3E-15	DRESSER PAY LOADER #9112
17/FEB/94	21/FEB/94	137	8.8	3.41E+04	2	7	27	2.0E-14	1.2E-15	6.3E-15	DRESSER PAY LOADER #9112
17/FEB/94	21/FEB/94	336	8.0	7.61E+04	1	7	47	1.3E-14	4.8E-15	2.1E-15	DRESSER PAY LOADER #9112
17/FEB/94	21/FEB/94	104	8.5	2.50E+04	2	7	26	2.7E-14	1.6E-15	8.6E-15	DRESSER PAY LOADER #9112
17/FEB/94	21/FEB/94	121	16.0	5.48E+04	2	7	25	1.1E-14	7.1E-16	3.9E-15	S1/2 BARREL AREA #18083N
17/FEB/94	21/FEB/94	120	14.0	4.76E+04	2	7	34	2.0E-14	9.2E-16	4.5E-15	S1/2 BARREL AREA #18083N
18/FEB/94	22/FEB/94	244	16.3	1.13E+05	1	5	48	9.7E-15	3.2E-15	1.2E-15	SOUTH SIDE OF S1 #7219
18/FEB/94	22/FEB/94	345	16.3	1.59E+05	2	5	35	6.6E-15	2.7E-16	1.1E-15	SOUTH SIDE OF S1 #7219
18/FEB/94	22/FEB/94	242	16.3	1.12E+05	2	5	20	4.7E-15	3.1E-16	1.6E-15	S1/2 FEED BELT AREA #1082
18/FEB/94	22/FEB/94	324	16.3	1.50E+05	1	5	58	9.0E-15	2.6E-15	8.9E-16	S1/2 FEED BELT AREA #1082
18/FEB/94	22/FEB/94	223	14.3	9.03E+04	2	5	29	9.3E-15	4.4E-16	2.0E-15	WEST PERIMETER #7218
18/FEB/94	22/FEB/94	239	14.0	9.48E+04	1	5	68	1.7E-14	4.5E-15	1.4E-15	WEST PERIMETER #7218
18/FEB/94	22/FEB/94	328	14.4	1.34E+05	1	5	57	9.9E-15	2.9E-15	9.9E-16	WEST PERIMETER #7218
18/FEB/94	22/FEB/94	96	8.7	2.37E+04	1	5	43	4.1E-14	1.5E-14	5.6E-15	DRESSER PAY LOADER #9112
18/FEB/94	22/FEB/94	191	7.8	4.22E+04	2	5	32	2.2E-14	9.9E-16	4.3E-15	DRESSER PAY LOADER #9112
18/FEB/94	22/FEB/94	223	13.3	8.40E+04	1	5	53	1.5E-14	4.5E-15	1.6E-15	DRESSER PAY LOADER #9112
18/FEB/94	22/FEB/94	125	8.5	3.01E+04	2	5	25	2.3E-14	1.2E-15	6.1E-15	DRESSER PAY LOADER #9112
18/FEB/94	22/FEB/94	71	16.6	3.34E+04	1	5	54	3.7E-14	1.1E-14	4.0E-15	S1/2 BARREL AREA #18083N
19/FEB/94	25/FEB/94	217	16.2	9.96E+04	1	5	53	1.2E-14	3.8E-15	1.3E-15	SOUTH SIDE OF S1 #7219
19/FEB/94	23/FEB/94	157	15.5	6.89E+04	1	5	48	1.6E-14	5.3E-15	1.9E-15	SOUTH SIDE OF S1 #7219
19/FEB/94	23/FEB/94	218	15.6	9.63E+04	2	5	27	8.0E-15	4.0E-16	1.9E-15	S1/2 FEED BELT AREA #1082
19/FEB/94	24/FEB/94	155	15.1	6.63E+04	2	7	31	1.3E-14	6.4E-16	3.3E-15	S1/2 FEED BELT AREA #1082
19/FEB/94	24/FEB/94	270	13.7	1.05E+05	1	6	42	8.7E-15	3.3E-15	1.4E-15	WEST PERIMETER #7218
19/FEB/94	24/FEB/94	263	8.4	6.26E+04	1	6	49	1.7E-14	5.9E-15	2.3E-15	DRESSER PAY LOADER #9112
19/FEB/94	23/FEB/94	126	8.8	3.14E+04	2	5	26	2.3E-14	1.2E-15	5.8E-15	DRESSER PAY LOADER #9112
26/FEB/94	01/MAR/94	170	15.5	7.46E+04	2	5	45	1.9E-14	6.5E-16	2.4E-15	SOUTH SIDE OF S1 #7219
26/FEB/94	01/MAR/94	115	15.5	5.05E+04	1	2	38	1.8E-14	6.2E-15	1.7E-15	SOUTH SIDE OF S1 #7219
26/FEB/94	01/MAR/94	188	15.5	8.25E+04	1	2	53	1.6E-14	4.5E-15	1.0E-15	SOUTH SIDE OF S1 #7219
26/FEB/94	01/MAR/94	145	15.2	6.24E+04	2	5	24	1.1E-14	5.9E-16	2.9E-15	SOUTH SIDE OF S1 #7219
26/FEB/94	01/MAR/94	213	16.5	9.95E+04	2	5	39	1.2E-14	4.6E-16	1.8E-15	S1/2 FEED BELT AREA #1082
26/FEB/94	01/MAR/94	206	16.0	9.33E+04	1	2	39	1.0E-14	3.4E-15	9.0E-16	S1/2 FEED BELT AREA #1082
26/FEB/94	01/MAR/94	144	16.2	6.61E+04	1	2	42	1.5E-14	5.0E-15	1.3E-15	S1/2 FEED BELT AREA #1082
26/FEB/94	01/MAR/94	215	13.6	8.28E+04	2	5	25	8.4E-15	4.5E-16	2.2E-15	WEST PERIMETER #7218
26/FEB/94	01/MAR/94	72	13.6	2.77E+04	1	2	44	3.8E-14	1.2E-14	3.0E-15	WEST PERIMETER #7218
26/FEB/94	01/MAR/94	192	14.0	7.61E+04	2	5	27	1.0E-14	5.1E-16	2.4E-15	WEST PERIMETER #7218
26/FEB/94	01/MAR/94	142	13.6	5.47E+04	1	2	37	1.6E-14	5.7E-15	1.5E-15	WEST PERIMETER #7218
26/FEB/94	01/MAR/94	88	8.4	2.09E+04	1	2	58	6.8E-14	1.8E-14	4.0E-15	DRESSER PAY LOADER #9112
26/FEB/94	01/MAR/94	131	8.3	3.08E+04	2	5	37	3.6E-14	1.4E-15	5.9E-15	DRESSER PAY LOADER #9112
26/FEB/94	01/MAR/94	98	8.1	2.25E+04	2	5	44	6.1E-14	2.1E-15	8.1E-15	DRESSER PAY LOADER #9112
26/FEB/94	02/MAR/94	154	7.3	3.18E+04	2	6	42	3.9E-14	1.5E-15	6.3E-15	DRESSER PAY LOADER #9112
26/FEB/94	02/MAR/94	91	7.2	1.86E+04	1	6	47	5.6E-14	2.0E-14	7.8E-15	DRESSER PAY LOADER #9112

Sample Date	Count Date	Sample Time (min)	Flow Rate (cfm)	Sample Volume (liters)	Instr No.	Gross Bkg Cnt	Gross Sample Cnt	Reported Activity (uCi/ml)	2 Std Dev. +/-	Critical Level (uCi/ml)	Sample Area Description
26/FEB/94	02/MAR/94	164	14.7	6.83E+04	1	6	58	1.9E-14	5.8E-15	2.1E-15	S1/2 BARREL AREA #18083N
26/FEB/94	02/MAR/94	70	14.5	2.87E+04	2	6	34	3.4E-14	1.5E-15	6.9E-15	S1/2 BARREL AREA #18083N
26/FEB/94	02/MAR/94	45	13.4	1.71E+04	1	6	60	8.0E-14	2.4E-14	8.5E-15	S1/2 BARREL AREA #18083N
28/FEB/94	02/MAR/94	134	15.5	5.88E+04	2	6	33	1.6E-14	7.3E-16	3.4E-15	SOUTH SIDE OF S1 #7219
28/FEB/94	02/MAR/94	119	16.3	5.49E+04	1	6	56	2.3E-14	7.1E-15	2.6E-15	SOUTH SIDE OF S1 #7219
28/FEB/94	03/MAR/94	72	15.5	3.16E+04	2	4	32	3.1E-14	1.3E-15	5.2E-15	SOUTH SIDE OF S1 #7219
28/FEB/94	03/MAR/94	108	15.3	4.68E+04	1	7	56	2.7E-14	8.4E-15	3.3E-15	SOUTH SIDE OF S1 #7219
28/FEB/94	03/MAR/94	161	15.5	7.07E+04	1	7	39	1.1E-14	4.8E-15	2.2E-15	SOUTH SIDE OF S1 #7219
28/FEB/94	02/MAR/94	135	16.3	6.23E+04	1	6	55	2.0E-14	6.2E-15	2.3E-15	S1/2 FEED BELT AREA #1082
28/FEB/94	02/MAR/94	120	16.0	5.44E+04	1	6	44	1.8E-14	6.5E-15	2.7E-15	S1/2 FEED BELT AREA #1082
28/FEB/94	03/MAR/94	72	15.2	3.10E+04	2	4	21	1.9E-14	1.1E-15	5.3E-15	S1/2 FEED BELT AREA #1082
28/FEB/94	03/MAR/94	109	15.5	4.78E+04	1	7	51	2.3E-14	7.9E-15	3.3E-15	S1/2 FEED BELT AREA #1082
28/FEB/94	03/MAR/94	157	15.7	6.98E+04	1	7	52	1.6E-14	5.5E-15	2.2E-15	S1/2 FEED BELT AREA #1082
28/FEB/94	02/MAR/94	138	14.0	5.47E+04	2	6	31	1.6E-14	7.6E-16	3.6E-15	WEST PERIMETER #7218
28/FEB/94	02/MAR/94	118	13.5	4.51E+04	2	6	34	2.2E-14	9.6E-16	4.4E-15	WEST PERIMETER #7218
28/FEB/94	03/MAR/94	72	13.8	2.81E+04	2	4	39	4.3E-14	1.6E-15	5.8E-15	WEST PERIMETER #7218
28/FEB/94	03/MAR/94	107	13.5	4.09E+04	2	4	27	2.0E-14	9.3E-16	4.0E-15	WEST PERIMETER #7218
28/FEB/94	03/MAR/94	151	13.6	5.82E+04	2	4	41	2.2E-14	7.9E-16	2.8E-15	WEST PERIMETER #7218
28/FEB/94	02/MAR/94	116	8.3	2.73E+04	1	6	35	2.7E-14	1.2E-14	5.3E-15	DRESSER PAY LOADER #9112
28/FEB/94	02/MAR/94	118	8.3	2.77E+04	2	6	31	3.1E-14	1.5E-15	7.2E-15	DRESSER PAY LOADER #9112
28/FEB/94	02/MAR/94	87	7.7	1.90E+04	1	6	49	5.8E-14	1.9E-14	7.6E-15	DRESSER PAY LOADER #9112
28/FEB/94	03/MAR/94	107	7.5	2.27E+04	1	7	46	4.4E-14	1.6E-14	6.9E-15	DRESSER PAY LOADER #9112
28/FEB/94	02/MAR/94	108	7.5	2.29E+04	2	6	32	4.0E-14	1.8E-15	8.7E-15	DRESSER PAY LOADER #9112
28/FEB/94	03/MAR/94	48	8.4	1.14E+04	2	4	37	1.0E-13	3.8E-15	1.4E-14	DRESSER PAY LOADER #9112
28/FEB/94	02/MAR/94	66	14.0	2.62E+04	1	6	51	4.4E-14	1.4E-14	5.5E-15	S1/2 BARREL AREA #18083N
28/FEB/94	02/MAR/94	60	13.9	2.36E+04	2	6	34	4.1E-14	1.8E-15	8.5E-15	S1/2 BARREL AREA #18083N
28/FEB/94	03/MAR/94	85	14.5	3.49E+04	2	4	31	2.7E-14	1.2E-15	4.7E-15	S1/2 BARREL AREA #18083N

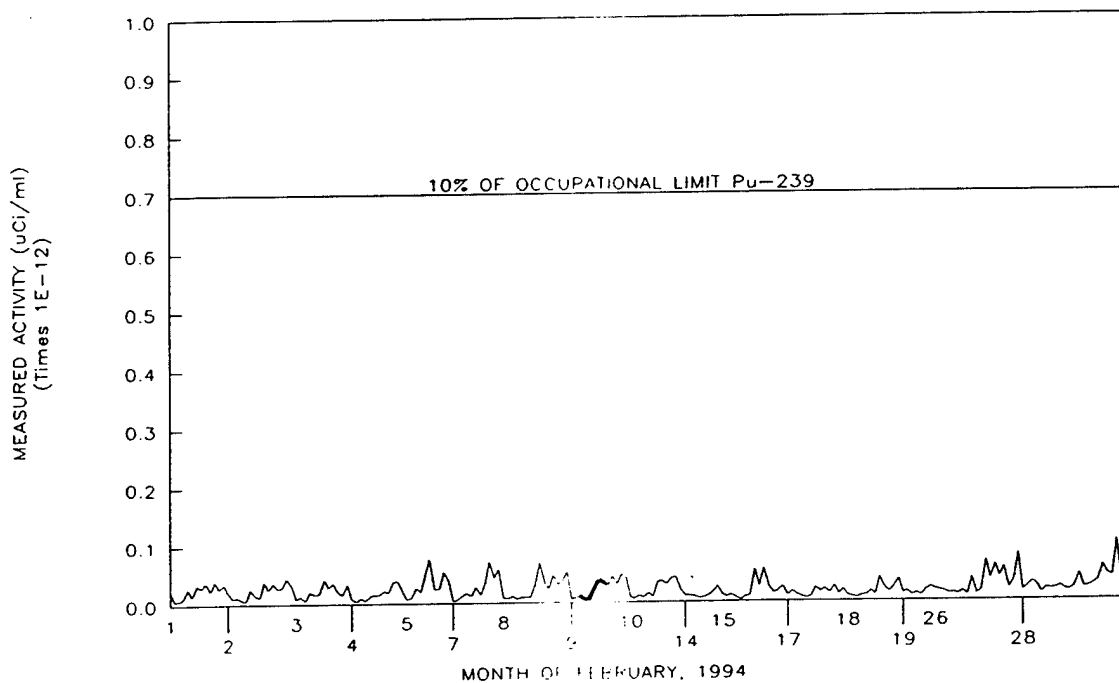
JA PLUTONIUM SITE

GROSS ALPHA RADIOACTIVITY IN AIR

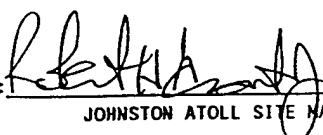


JA PLUTONIUM SITE

GROSS ALPHA RADIOACTIVITY IN AIR



TMA/EBERLINE-JOHNSTON ATOLL GROSS ALPHA RADIOACTIVITY IN AIR TEST RESULTS FOR THE MONTH OF MARCH, 1994

THIS REPORT WAS REVIEWED BY:  DATE: 4 APR 94
JOHNSTON ATOLL SITE MANAGER

The current 10CFR PART 20 "Standards for Protection Against Radiation" limits of concentration in air for Pu-239 are as follows:

Occupational Limit = 7 E-12 uCi/ml

INSTRUMENT NO.1	MS-2/RD-14 SN: 354/407	SITE NAME:	JOHNSTON ATOLL
CAL DUE DATE:	08-JUN-94	REPORT DATE:	06-APR-94
INSTRUMENT NO.2	ESP-2/43-1 SN:964/PRO33568	COMPILED BY:	S. PARKER/J. WOODS
CAL DUE DATE:	05-JUL-94		50
EFF INSTR NO.1 =	0.355 4 pi	RECALIBRATED 08-MAR-94	CAL DUE: 08-SEP-94 EFF= 0.375 4 pi
EFF INSTR NO.2 =	0.258 4 pi	RECALIBRATED 08-MAR-94	CAL DUE: 08-SEP-94 EFF= 0.294 4 pi
BKG COUNT TIME:	50 min		
SAMPLE CNT TIME:	50 min		

Sample Date	Count Date	Sample Time (min)	Flow Rate (cfm)	Sample Volume (liters)	Instr No.	Gross Bkg Cnt	Gross Sample Cnt	Reported Activity (uCi/ml)	2 Std Dev. +/-	Critical Level (uCi/ml)	Sample Area Description
01/MAR/94	03/MAR/94	260	15.1	1.11E+05	2	4	32	8.8E-15	3.7E-16	1.5E-15	SOUTH SIDE OF S1 #7219
01/MAR/94	04/MAR/94	311	15.8	1.39E+05	1	6	55	8.9E-15	2.8E-15	1.0E-15	SOUTH SIDE OF S1 #7219
01/MAR/94	04/MAR/94	261	13.3	9.83E+04	1	6	50	1.1E-14	3.8E-15	1.5E-15	S1/2 FEED BELT AREA #1082
01/MAR/94	04/MAR/94	311	15.5	1.37E+05	1	6	54	8.9E-15	2.8E-15	1.1E-15	S1/2 FEED BELT AREA #1082
01/MAR/94	04/MAR/94	260	10.7	7.88E+04	2	7	23	7.1E-15	4.8E-16	2.7E-15	WEST PERIMETER #7218
01/MAR/94	04/MAR/94	309	13.3	1.16E+05	2	7	36	8.7E-15	3.9E-16	1.9E-15	WEST PERIMETER #7218
01/MAR/94	03/MAR/94	98	7.8	2.16E+04	2	4	37	5.3E-14	2.0E-15	7.5E-15	DRESSER PAYLOADER #9112
01/MAR/94	03/MAR/94	195	8.1	4.47E+04	1	7	57	2.8E-14	8.9E-15	3.5E-15	DRESSER PAYLOADER #9112
01/MAR/94	04/MAR/94	95	8.0	2.15E+04	2	7	38	5.0E-14	2.1E-15	1.0E-14	DRESSER PAYLOADER #9112
01/MAR/94	04/MAR/94	124	7.2	2.53E+04	1	6	65	5.9E-14	1.7E-14	5.7E-15	DRESSER PAYLOADER #9112
01/MAR/94	04/MAR/94	76	7.5	1.61E+04	2	7	31	5.2E-14	2.6E-15	1.3E-14	DRESSER PAYLOADER #9112
01/MAR/94	03/MAR/94	99	14.3	4.01E+04	1	7	47	2.5E-14	9.1E-15	3.9E-15	HOT BARREL AREA #18083N
02/MAR/94	04/MAR/94	302	15.3	1.31E+05	2	7	31	6.4E-15	3.2E-16	1.6E-15	SOUTH SIDE OF S1 #7219
02/MAR/94	05/MAR/94	252	14.8	1.06E+05	1	6	46	9.6E-15	3.4E-15	1.4E-15	SOUTH SIDE OF S1 #7219
02/MAR/94	04/MAR/94	308	12.6	1.10E+05	1	6	50	1.0E-14	3.4E-15	1.3E-15	S1/2 FEED BELT AREA #1082
02/MAR/94	05/MAR/94	250	15.2	1.08E+05	1	6	46	9.4E-15	3.3E-15	1.3E-15	S1/2 FEED BELT AREA #1082
02/MAR/94	04/MAR/94	313	13.5	1.20E+05	2	7	20	3.8E-15	3.0E-16	1.8E-15	WEST PERIMETER #7218
02/MAR/94	05/MAR/94	248	13.6	9.55E+04	2	8	21	4.8E-15	3.9E-16	2.4E-15	WEST PERIMETER #7218
02/MAR/94	04/MAR/94	103	7.6	2.22E+04	1	6	54	5.5E-14	1.7E-14	6.5E-15	DRESSER PAYLOADER #9112
02/MAR/94	04/MAR/94	140	7.9	3.13E+04	1	6	56	4.1E-14	1.3E-14	4.6E-15	DRESSER PAYLOADER #9112
02/MAR/94	05/MAR/94	199	7.2	4.06E+04	2	8	27	1.6E-14	1.0E-15	5.7E-15	DRESSER PAYLOADER #9112
02/MAR/94	05/MAR/94	109	7.6	2.35E+04	2	8	28	3.0E-14	1.8E-15	9.8E-15	DRESSER PAYLOADER #9112
02/MAR/94	04/MAR/94	110	14.5	4.52E+04	2	7	27	1.5E-14	8.8E-16	4.8E-15	HOT BARREL AREA #18083N
02/MAR/94	04/MAR/94	125	14.0	4.96E+04	1	6	51	2.3E-14	7.6E-15	2.9E-15	HOT BARREL AREA #18083N
03/MAR/94	05/MAR/94	537	14.6	2.22E+05	2	8	47	6.1E-15	2.3E-16	1.0E-15	SOUTH SIDE OF S1 #7219
03/MAR/94	05/MAR/94	537	10.8	1.64E+05	2	8	25	3.6E-15	2.4E-16	1.4E-15	S1/2 FEED BELT AREA #1082
03/MAR/94	05/MAR/94	537	12.4	1.89E+05	2	8	42	6.3E-15	2.6E-16	1.2E-15	WEST PERIMETER #7218

Sample Date	Count Date	Sample Time (min)	Flow Rate (cfm)	Sample Volume (liters)	Instr No.	Gross Bkg Cnt	Gross Sample Cnt	Reported Activity (uCi/ml)	2 Std Dev. +/-	Critical Level (uCi/ml)	Sample Area Description
03/MAR/94	04/MAR/94	102	8.1	2.34E+04	2	7	51	6.6E-14	2.2E-15	9.2E-15	DRESSER PAYLOADER #9112
03/MAR/94	05/MAR/94	145	7.9	3.24E+04	2	8	26	1.9E-14	1.2E-15	7.1E-15	DRESSER PAYLOADER #9112
03/MAR/94	05/MAR/94	177	6.8	3.41E+04	1	6	69	4.7E-14	1.3E-14	4.3E-15	DRESSER PAYLOADER #9112
03/MAR/94	05/MAR/94	114	7.2	2.32E+04	1	6	53	5.1E-14	1.6E-14	6.2E-15	DRESSER PAYLOADER #9112
03/MAR/94	05/MAR/94	125	13.9	4.92E+04	1	6	63	2.9E-14	8.4E-15	2.9E-15	HOT BARREL AREA #18083N
03/MAR/94	05/MAR/94	92	13.0	3.39E+04	1	6	70	4.8E-14	1.3E-14	4.3E-15	HOT BARREL AREA #18083N
04/MAR/94	09/MAR/94	267	15.3	1.16E+05	2	8	78	1.9E-14	4.8E-16	1.7E-15	SOUTH SIDE OF S1 #7219
04/MAR/94	08/MAR/94	273	15.3	1.18E+05	2	7	37	7.8E-15	3.4E-16	1.6E-15	SOUTH SIDE OF S1 #7219
04/MAR/94	09/MAR/94	271	15.2	1.17E+05	1	7	64	1.2E-14	3.4E-15	1.3E-15	S1/2 FEED BELT AREA #1082
04/MAR/94	08/MAR/94	272	15.0	1.16E+05	2	7	23	4.2E-15	2.8E-16	1.6E-15	S1/2 FEED BELT AREA #1082
04/MAR/94	09/MAR/94	272	13.5	1.04E+05	2	8	40	9.4E-15	4.0E-16	1.9E-15	WEST PERIMETER #7218
04/MAR/94	08/MAR/94	268	13.1	9.94E+04	2	7	26	5.9E-15	3.5E-16	1.9E-15	WEST PERIMETER #7218
04/MAR/94	09/MAR/94	105	8.6	2.56E+04	2	8	35	3.2E-14	1.5E-15	7.9E-15	DRESSER PAYLOADER #9112
04/MAR/94	09/MAR/94	134	8.4	3.19E+04	2	8	35	2.6E-14	1.2E-15	6.3E-15	DRESSER PAYLOADER #9112
04/MAR/94	09/MAR/94	180	7.9	4.03E+04	1	7	70	3.8E-14	1.0E-14	3.7E-15	DRESSER PAYLOADER #9112
04/MAR/94	08/MAR/94	118	7.9	2.64E+04	2	7	23	1.9E-14	1.2E-15	7.2E-15	DRESSER PAYLOADER #9112
04/MAR/94	09/MAR/94	195	13.6	7.51E+04	1	7	67	1.9E-14	5.4E-15	2.0E-15	HOT BARREL AREA #18083N
04/MAR/94	09/MAR/94	120	12.9	4.38E+04	2	8	48	2.8E-14	1.0E-15	4.6E-15	HOT BARREL AREA #18083N
05/MAR/94	09/MAR/94	138	15.5	6.06E+04	2	8	32	1.2E-14	6.3E-16	3.3E-15	SOUTH SIDE OF S1 #7219
05/MAR/94	09/MAR/94	140	15.2	6.03E+04	1	7	38	1.2E-14	5.2E-15	2.5E-15	S1/2 FEED BELT AREA #1082
05/MAR/94	09/MAR/94	135	13.5	5.16E+04	1	7	40	1.5E-14	6.3E-15	2.9E-15	WEST PERIMETER #7218
05/MAR/94	09/MAR/94	140	9.5	3.77E+04	1	7	61	3.4E-14	1.0E-14	3.9E-15	DRESSER PAYLOADER #9112
05/MAR/94	09/MAR/94	140	13.2	5.23E+04	2	8	31	1.3E-14	7.2E-16	3.9E-15	HOT BARREL AREA #18083N
11/MAR/94	15/MAR/94	170	15.2	7.32E+04	2	6	39	1.4E-14	5.5E-16	2.4E-15	SOUTH SIDE OF S1 #7219
11/MAR/94	15/MAR/94	175	15.1	7.48E+04	1	9	43	1.1E-14	4.5E-15	2.2E-15	S1/2 FEED BELT AREA #1082
11/MAR/94	15/MAR/94	77	13.0	2.83E+04	1	9	55	3.9E-14	1.3E-14	5.9E-15	WEST PERIMETER #7218
11/MAR/94	15/MAR/94	120	14.0	4.76E+04	2	6	32	1.7E-14	7.8E-16	3.7E-15	WEST PERIMETER #7218
11/MAR/94	15/MAR/94	104	14.0	4.12E+04	2	6	32	1.9E-14	9.0E-16	4.2E-15	DRESSER PAYLOADER #9112
11/MAR/94	15/MAR/94	162	8.4	3.85E+04	1	9	73	4.0E-14	1.1E-14	4.4E-15	DRESSER PAYLOADER #9112
11/MAR/94	15/MAR/94	165	13.5	6.31E+04	1	9	54	1.7E-14	5.9E-15	2.7E-15	HOT BARREL AREA #18083N
15/MAR/94	17/MAR/94	104	15.5	4.57E+04	1	1	56	2.9E-14	7.8E-15	1.2E-15	SOUTH SIDE OF S1 #7219
15/MAR/94	17/MAR/94	165	14.8	6.92E+04	2	9	29	8.9E-15	5.4E-16	3.1E-15	SOUTH SIDE OF S1 #7219
15/MAR/94	18/MAR/94	128	14.0	5.07E+04	1	11	51	1.9E-14	7.3E-15	3.7E-15	SOUTH SIDE OF S1 #7219
15/MAR/94	17/MAR/94	105	16.0	4.76E+04	1	1	55	2.7E-14	7.4E-15	1.2E-15	S1/2 FEED BELT AREA #1082
15/MAR/94	18/MAR/94	207	14.5	8.50E+04	2	6	30	8.7E-15	4.2E-16	2.1E-15	S1/2 FEED BELT AREA #1082
15/MAR/94	17/MAR/94	83	14.5	3.41E+04	1	1	47	3.2E-14	9.6E-15	1.6E-15	S1/2 FEED BELT AREA #1082
15/MAR/94	18/MAR/94	70	13.0	2.58E+04	1	11	50	3.6E-14	1.4E-14	7.2E-15	WEST PERIMETER #7218
15/MAR/94	17/MAR/94	106	11.5	3.45E+04	2	9	43	3.0E-14	1.3E-15	6.2E-15	WEST PERIMETER #7218
15/MAR/94	17/MAR/94	88	12.5	3.12E+04	1	1	59	4.5E-14	1.2E-14	1.8E-15	WEST PERIMETER #7218
15/MAR/94	17/MAR/94	44	12.5	1.56E+04	1	1	49	7.4E-14	2.1E-14	3.6E-15	WEST PERIMETER #7218
15/MAR/94	18/MAR/94	68	14.3	2.75E+04	2	6	35	3.2E-14	1.4E-15	6.4E-15	WEST PERIMETER #7218
15/MAR/94	16/MAR/94	90	8.1	2.06E+04	1	10	53	5.0E-14	1.8E-14	8.6E-15	DRESSER PAYLOADER #9112
15/MAR/94	17/MAR/94	84	8.4	2.00E+04	2	9	26	2.6E-14	1.8E-15	1.1E-14	DRESSER PAYLOADER #9112
15/MAR/94	18/MAR/94	77	8.4	1.83E+04	2	6	25	3.2E-14	1.8E-15	9.6E-15	DRESSER PAYLOADER #9112
15/MAR/94	18/MAR/94	43	8.4	1.02E+04	1	11	55	1.0E-13	3.7E-14	1.8E-14	DRESSER PAYLOADER #9112
15/MAR/94	17/MAR/94	60	7.8	1.33E+04	2	9	33	5.5E-14	2.9E-15	1.6E-14	DRESSER PAYLOADER #9112
15/MAR/94	18/MAR/94	57	8.6	1.39E+04	1	11	55	7.6E-14	2.8E-14	1.3E-14	DRESSER PAYLOADER #9112
15/MAR/94	18/MAR/94	68	7.8	1.50E+04	1	11	75	1.0E-13	2.9E-14	1.2E-14	DRESSER PAYLOADER #9112
15/MAR/94	17/MAR/94	61	14.0	2.42E+04	1	1	53	5.2E-14	1.4E-14	2.3E-15	HOT BELT AREA #18083N
15/MAR/94	17/MAR/94	74	15.5	3.25E+04	2	9	37	2.6E-14	1.3E-15	6.6E-15	HOT BELT AREA #18083N
15/MAR/94	17/MAR/94	52	14.3	2.11E+04	1	1	37	4.1E-14	1.4E-14	2.7E-15	HOT BELT AREA #18083N
15/MAR/94	17/MAR/94	56	14.5	2.30E+04	2	9	36	3.6E-14	1.8E-15	9.3E-15	HOT BELT AREA #18083N

Sample Date	Count Date	Sample Time (min)	Flow Rate (cfm)	Sample Volume (liters)	Instr No.	Gross Bkg Cnt	Gross Sample Cnt	Reported Activity (uCi/ml)	2 Std Dev. +/-	Critical Level (uCi/ml)	Sample Area Description
15/MAR/94	18/MAR/94	53	14.0	2.10E+04	2	6	25	2.8E-14	1.6E-15	8.3E-15	HOT BELT AREA #18083N
16/MAR/94	19/MAR/94	130	15.0	5.52E+04	1	2	43	1.8E-14	5.7E-15	1.4E-15	SOUTH SIDE OF S1 #7219
16/MAR/94	19/MAR/94	170	14.8	7.13E+04	1	2	47	1.5E-14	4.6E-15	1.1E-15	SOUTH SIDE OF S1 #7219
16/MAR/94	18/MAR/94	142	15.0	6.03E+04	1	11	40	1.2E-14	5.6E-15	3.1E-15	SOUTH SIDE OF S1 #7219
16/MAR/94	19/MAR/94	136	15.5	5.97E+04	1	2	47	1.8E-14	5.5E-15	1.3E-15	S1/2 FEED BELT AREA #1082
16/MAR/94	18/MAR/94	170	15.0	7.22E+04	2	6	33	1.1E-14	5.2E-16	2.4E-15	S1/2 FEED BELT AREA #1082
16/MAR/94	18/MAR/94	139	15.0	5.90E+04	2	6	30	1.2E-14	6.1E-16	3.0E-15	S1/2 FEED BELT AREA #1082
16/MAR/94	19/MAR/94	137	16.2	6.29E+04	2	6	25	9.3E-15	5.3E-16	2.8E-15	WEST PERIMETER #7218
16/MAR/94	19/MAR/94	130	15.9	5.85E+04	1	2	61	2.4E-14	6.4E-15	1.4E-15	WEST PERIMETER #7218
16/MAR/94	18/MAR/94	89	15.2	3.83E+04	2	6	19	1.0E-14	7.8E-16	4.6E-15	WEST PERIMETER #7218
16/MAR/94	18/MAR/94	88	15.0	3.74E+04	1	11	48	2.4E-14	9.7E-15	5.0E-15	WEST PERIMETER #7218
16/MAR/94	19/MAR/94	131	8.1	3.01E+04	1	6	27	1.7E-14	9.0E-15	4.6E-15	DRESSER PAYLOADER #9112
16/MAR/94	19/MAR/94	84	7.9	1.88E+04	2	6	32	4.2E-14	2.0E-15	9.3E-15	DRESSER PAYLOADER #9112
16/MAR/94	18/MAR/94	79	7.8	1.75E+04	2	6	34	4.9E-14	2.2E-15	1.0E-14	DRESSER PAYLOADER #9112
16/MAR/94	18/MAR/94	99	7.7	2.16E+04	1	11	65	6.0E-14	1.9E-14	8.6E-15	DRESSER PAYLOADER #9112
16/MAR/94	19/MAR/94	118	13.9	4.65E+04	2	6	26	1.3E-14	7.3E-16	3.8E-15	HOT BELT AREA #18083N
16/MAR/94	19/MAR/94	42	14.0	1.67E+04	1	2	54	7.5E-14	2.1E-14	4.8E-15	HOT BELT AREA #18083N
16/MAR/94	18/MAR/94	81	15.0	3.44E+04	1	11	41	2.1E-14	9.9E-15	5.4E-15	HOT BELT AREA #18083N
17/MAR/94	22/MAR/94	131	14.9	5.53E+04	1	5	34	1.3E-14	5.3E-15	2.3E-15	SOUTH SIDE OF S1 #7219
17/MAR/94	19/MAR/94	184	15.5	8.08E+04	1	2	54	1.5E-14	4.4E-15	9.8E-16	SOUTH SIDE OF S1 #7219
17/MAR/94	21/MAR/94	179	15.5	7.86E+04	1	7	39	9.8E-15	4.1E-15	1.9E-15	SOUTH SIDE OF S1 #7219
17/MAR/94	21/MAR/94	132	15.0	5.61E+04	2	7	24	9.3E-15	6.0E-16	3.4E-15	S1/2 FEED BELT AREA #1082
17/MAR/94	19/MAR/94	360	15.3	1.56E+05	2	6	33	5.3E-15	2.4E-16	1.1E-15	S1/2 FEED BELT AREA #1082
17/MAR/94	21/MAR/94	155	13.8	6.06E+04	1	7	52	1.8E-14	6.0E-15	2.4E-15	WEST PERIMETER #7218
17/MAR/94	19/MAR/94	120	13.2	4.49E+04	2	6	46	2.7E-14	9.7E-16	3.9E-15	WEST PERIMETER #7218
17/MAR/94	21/MAR/94	63	13.9	2.48E+04	2	7	25	2.2E-14	1.4E-15	7.6E-15	WEST PERIMETER #7218
17/MAR/94	21/MAR/94	157	13.5	6.00E+04	1	7	46	1.6E-14	5.7E-15	2.5E-15	WEST PERIMETER #7218
17/MAR/94	19/MAR/94	61	8.1	1.40E+04	2	6	55	1.1E-13	3.4E-15	1.3E-14	DRESSER PAYLOADER #9112
17/MAR/94	19/MAR/94	119	7.8	2.63E+04	1	2	57	5.0E-14	1.4E-14	3.0E-15	DRESSER PAYLOADER #9112
17/MAR/94	21/MAR/94	107	8.1	2.45E+04	2	7	58	6.4E-14	2.0E-15	7.7E-15	DRESSER PAYLOADER #9112
17/MAR/94	21/MAR/94	63	8.1	1.45E+04	1	7	46	6.5E-14	2.4E-14	1.0E-14	DRESSER PAYLOADER #9112
17/MAR/94	21/MAR/94	82	8.3	1.93E+04	2	7	28	3.3E-14	1.8E-15	9.8E-15	DRESSER PAYLOADER #9112
17/MAR/94	21/MAR/94	71	8.2	1.65E+04	2	7	31	4.5E-14	2.2E-15	1.1E-14	DRESSER PAYLOADER #9112
17/MAR/94	21/MAR/94	58	8.3	1.36E+04	1	7	48	7.2E-14	2.6E-14	1.1E-14	DRESSER PAYLOADER #9112
17/MAR/94	19/MAR/94	106	14.8	4.44E+04	1	2	65	3.4E-14	8.7E-15	1.8E-15	HOT BELT AREA #18083N
17/MAR/94	19/MAR/94	54	15.5	2.37E+04	2	6	35	3.7E-14	1.6E-15	7.4E-15	HOT BELT AREA #18083N
17/MAR/94	19/MAR/94	51	15.0	2.17E+04	1	2	51	5.4E-14	1.6E-14	3.7E-15	HOT BELT AREA #18083N
17/MAR/94	21/MAR/94	58	14.4	2.37E+04	1	7	44	3.8E-14	1.4E-14	6.3E-15	HOT BELT AREA #18083N
17/MAR/94	21/MAR/94	55	15.1	2.35E+04	2	7	22	2.0E-14	1.4E-15	8.0E-15	HOT BELT AREA #18083N
17/MAR/94	21/MAR/94	65	14.3	2.63E+04	1	7	54	4.3E-14	1.4E-14	5.6E-15	HOT BELT AREA #18083N
18/MAR/94	22/MAR/94	97	19.0	5.22E+04	2	3	34	1.8E-14	7.0E-16	2.4E-15	SOUTH SIDE OF S1 #7219
18/MAR/94	22/MAR/94	88	19.0	4.74E+04	1	5	46	2.1E-14	7.1E-15	2.6E-15	SOUTH SIDE OF S1 #7219
18/MAR/94	22/MAR/94	85	15.5	3.73E+04	2	3	20	1.4E-14	7.7E-16	3.3E-15	S1/2 FEED BELT AREA #1082
18/MAR/94	22/MAR/94	98	15.0	4.16E+04	2	3	23	1.5E-14	7.4E-16	3.0E-15	S1/2 FEED BELT AREA #1082
18/MAR/94	22/MAR/94	51	14.8	2.14E+04	1	5	40	3.9E-14	1.5E-14	5.9E-15	WEST PERIMETER #7218
18/MAR/94	22/MAR/94	97	13.5	3.71E+04	2	3	33	2.5E-14	9.7E-16	3.3E-15	WEST PERIMETER #7218
18/MAR/94	22/MAR/94	76	13.0	2.80E+04	1	5	41	3.1E-14	1.1E-14	4.5E-15	WEST PERIMETER #7218
18/MAR/94	22/MAR/94	64	15.0	2.72E+04	1	5	65	5.3E-14	1.4E-14	4.6E-15	HOT BELT AREA #18083N-CP-
18/MAR/94	22/MAR/94	30	16.0	1.36E+04	2	3	23	4.5E-14	2.3E-15	9.1E-15	HOT BELT AREA #18083N-CP-
18/MAR/94	22/MAR/94	35	14.5	1.44E+04	1	5	46	6.9E-14	2.3E-14	8.7E-15	HOT BELT AREA #18083N-CP-
18/MAR/94	21/MAR/94	59	15.6	2.61E+04	1	7	62	5.1E-14	1.5E-14	5.7E-15	HOT BELT AREA #18083N-CP-
18/MAR/94	21/MAR/94	62	14.5	2.55E+04	2	7	34	3.2E-14	1.5E-15	7.4E-15	HOT BELT AREA #18083N-CP-

Sample Date	Count Date	Sample Time (min)	Flow Rate (cfm)	Sample Volume (liters)	Instr No.	Gross Bkg Cnt	Gross Sample Cnt	Reported Activity (uCi/ml)	2 Std Dev. +/-	Critical Level (uCi/ml)	Sample Area Description
19/MAR/94	23/MAR/94	109	15.5	4.78E+04	1	6	50	2.2E-14	7.4E-15	2.9E-15	SOUTH SIDE OF S1 #7219
19/MAR/94	23/MAR/94	119	15.9	5.36E+04	1	6	47	1.8E-14	6.4E-15	2.6E-15	SOUTH SIDE OF S1 #7219
19/MAR/94	23/MAR/94	64	15.5	2.81E+04	2	3	27	2.6E-14	1.2E-15	4.4E-15	SOUTH SIDE OF S1 #7219
19/MAR/94	23/MAR/94	108	14.9	4.56E+04	1	6	44	2.0E-14	7.3E-15	3.0E-15	S1/2 FEED BELT AREA #1082
19/MAR/94	22/MAR/94	182	15.2	7.83E+04	1	5	66	1.9E-14	5.1E-15	1.6E-15	S1/2 FEED BELT AREA #1082
19/MAR/94	23/MAR/94	97	12.9	3.54E+04	2	6	33	2.3E-14	1.1E-15	4.9E-15	WEST PERIMETER #7218
19/MAR/94	22/MAR/94	80	14.2	3.22E+04	2	3	26	2.2E-14	1.0E-15	3.8E-15	WEST PERIMETER #7218
19/MAR/94	22/MAR/94	119	13.6	4.58E+04	1	5	42	1.9E-14	7.0E-15	2.7E-15	WEST PERIMETER #7218
19/MAR/94	23/MAR/94	45	14.0	1.78E+04	2	6	43	6.4E-14	2.4E-15	9.8E-15	BLDG 714 ENTRANCE #18083N
19/MAR/94	23/MAR/94	92	14.5	3.78E+04	2	6	30	1.9E-14	9.5E-16	4.6E-15	BLDG 714 ENTRANCE #18083N
19/MAR/94	22/MAR/94	35	14.5	1.44E+04	1	5	47	7.0E-14	2.4E-14	8.7E-15	HOT BELT AREA #18083N
19/MAR/94	22/MAR/94	37	14.0	1.47E+04	1	5	59	8.8E-14	2.6E-14	8.5E-15	HOT BELT AREA #18083N
19/MAR/94	22/MAR/94	45	13.9	1.77E+04	2	3	19	2.8E-14	1.6E-15	7.0E-15	HOT BELT AREA #18083N-CP-
19/MAR/94	22/MAR/94	30	15.0	1.27E+04	1	5	46	7.7E-14	2.6E-14	9.8E-15	HOT BELT AREA #18083N-CP-
21/MAR/94	24/MAR/94	80	15.5	3.51E+04	1	4	61	3.9E-14	1.1E-14	3.2E-15	SOUTH SIDE OF S1 #7219
21/MAR/94	24/MAR/94	120	14.8	5.03E+04	1	4	56	2.5E-14	7.3E-15	2.2E-15	SOUTH SIDE OF S1 #7219
21/MAR/94	24/MAR/94	44	16.2	2.02E+04	2	5	30	3.8E-14	1.8E-15	7.9E-15	SOUTH SIDE OF S1 #7219
21/MAR/94	23/MAR/94	161	15.9	7.25E+04	1	6	57	1.7E-14	5.2E-15	1.9E-15	SOUTH SIDE OF S1 #7219
21/MAR/94	23/MAR/94	82	15.5	3.60E+04	2	6	24	1.5E-14	9.1E-16	4.9E-15	SOUTH SIDE OF S1 #7219
21/MAR/94	24/MAR/94	122	15.0	5.18E+04	2	5	21	9.5E-15	5.9E-16	3.1E-15	S1/2 FEED BELT AREA #1082
21/MAR/94	24/MAR/94	82	15.2	3.53E+04	1	4	50	3.1E-14	9.8E-15	3.2E-15	S1/2 FEED BELT AREA #1082
21/MAR/94	23/MAR/94	164	15.7	7.29E+04	2	6	35	1.2E-14	5.3E-16	2.4E-15	S1/2 FEED BELT AREA #1082
21/MAR/94	23/MAR/94	45	15.0	1.91E+04	2	5	28	3.7E-14	1.8E-15	8.4E-15	S1/2 FEED BELT AREA #1082
21/MAR/94	23/MAR/94	79	15.9	3.56E+04	1	6	55	3.3E-14	1.0E-14	3.9E-15	S1/2 FEED BELT AREA #1082
21/MAR/94	24/MAR/94	131	12.5	4.64E+04	2	5	43	2.5E-14	9.0E-16	3.4E-15	WEST PERIMETER #7218
21/MAR/94	24/MAR/94	120	12.9	4.38E+04	1	4	42	2.1E-14	7.3E-15	2.6E-15	WEST PERIMETER #7218
21/MAR/94	23/MAR/94	33	13.5	1.26E+04	2	6	25	4.6E-14	2.7E-15	1.4E-14	WEST PERIMETER #7218
21/MAR/94	23/MAR/94	169	13.8	6.60E+04	1	6	50	1.6E-14	5.3E-15	2.1E-15	WEST PERIMETER #7218
21/MAR/94	23/MAR/94	34	14.0	1.35E+04	2	6	87	1.8E-13	4.3E-15	1.3E-14	HOT BELT AREA #18083N
21/MAR/94	24/MAR/94	45	14.3	1.82E+04	1	4	58	7.1E-14	2.0E-14	6.2E-15	HOT BELT AREA #18083N
21/MAR/94	23/MAR/94	30	15.1	1.28E+04	1	6	240	4.4E-13	5.8E-14	1.1E-14	HOT BELT AREA #18083N
21/MAR/94	23/MAR/94	30	14.7	1.25E+04	1	6	48	8.1E-14	2.8E-14	1.1E-14	HOT BELT AREA #18083N
21/MAR/94	23/MAR/94	103	14.3	4.17E+04	2	6	178	1.3E-13	2.0E-15	4.2E-15	HOT BELT AREA #18083N
21/MAR/94	24/MAR/94	30	15.5	1.32E+04	2	4	34	7.0E-14	2.8E-15	1.1E-14	HOT BELT AREA #18083N
21/MAR/94	23/MAR/94	37	15.0	1.57E+04	1	6	71	9.9E-14	2.6E-14	8.7E-15	HOT BELT AREA #18083N
21/MAR/94	23/MAR/94	39	14.7	1.62E+04	2	6	65	1.1E-13	3.1E-15	1.1E-14	HOT BELT AREA #18083N
22/MAR/94	25/MAR/94	71	14.8	2.98E+04	2	7	38	3.2E-14	1.4E-15	6.4E-15	SOUTH SIDE OF S1 #7219
22/MAR/94	25/MAR/94	66	15.6	2.92E+04	2	7	41	3.6E-14	1.4E-15	6.5E-15	SOUTH SIDE OF S1 #7219
22/MAR/94	25/MAR/94	66	15.5	2.90E+04	2	7	31	2.5E-14	1.3E-15	6.5E-15	SOUTH SIDE OF S1 #7219
22/MAR/94	25/MAR/94	151	15.3	6.54E+04	1	9	53	1.6E-14	5.7E-15	2.6E-15	SOUTH SIDE OF S1 #7219
22/MAR/94	25/MAR/94	69	15.3	2.99E+04	2	7	36	3.0E-14	1.3E-15	6.3E-15	SOUTH SIDE OF S1 #7219
22/MAR/94	25/MAR/94	101	15.3	4.38E+04	1	9	89	4.4E-14	1.1E-14	3.8E-15	SOUTH SIDE OF S1 #7219
22/MAR/94	26/MAR/94	72	15.5	3.16E+04	2	6	29	2.2E-14	1.1E-15	5.5E-15	S1/2 FEED BELT AREA #1082
22/MAR/94	25/MAR/94	67	15.2	2.88E+04	2	7	33	2.8E-14	1.3E-15	6.6E-15	S1/2 FEED BELT AREA #1082
22/MAR/94	25/MAR/94	66	15.0	2.80E+04	1	9	57	4.1E-14	1.4E-14	6.0E-15	S1/2 FEED BELT AREA #1082
22/MAR/94	25/MAR/94	203	14.9	8.57E+04	1	9	349	9.5E-14	1.0E-14	2.0E-15	S1/2 FEED BELT AREA #1082
22/MAR/94	25/MAR/94	117	14.9	4.94E+04	2	7	40	2.0E-14	8.3E-16	3.8E-15	S1/2 FEED BELT AREA #1082
22/MAR/94	25/MAR/94	77	13.7	2.99E+04	1	9	46	3.0E-14	1.2E-14	5.6E-15	WEST PERIMETER #7218
22/MAR/94	25/MAR/94	64	13.6	2.46E+04	1	9	78	6.7E-14	1.8E-14	6.8E-15	WEST PERIMETER #7218
22/MAR/94	24/MAR/94	65	13.6	2.50E+04	1	4	51	4.5E-14	1.4E-14	4.5E-15	WEST PERIMETER #7218
22/MAR/94	25/MAR/94	202	14.0	8.01E+04	1	9	67	1.7E-14	5.1E-15	2.1E-15	WEST PERIMETER #7218
22/MAR/94	25/MAR/94	109	13.6	4.20E+04	2	7	48	3.0E-14	1.1E-15	4.5E-15	WEST PERIMETER #7218

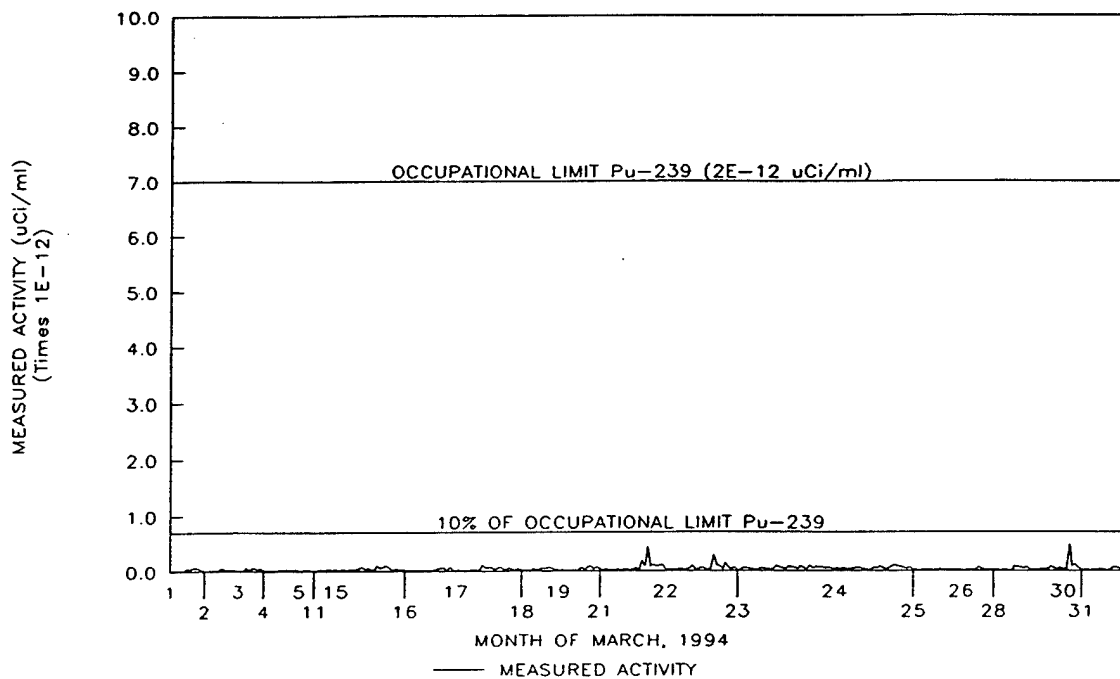
Sample Date	Count Date	Sample Time (min)	Flow Rate (cfm)	Sample Volume (liters)	Instr No.	Gross Bkg Cnt	Gross Sample Cnt	Reported Activity (uCi/ml)	2 Std Dev. +/-	Critical Level (uCi/ml)	Sample Area Description
22/MAR/94	25/MAR/94	60	13.8	2.34E+04	1	9	289	2.9E-13	3.5E-14	7.2E-15	HOT BELT AREA #18083N
22/MAR/94	25/MAR/94	47	14.2	1.89E+04	2	7	67	9.7E-14	2.7E-15	1.0E-14	HOT BELT AREA #18083N
22/MAR/94	24/MAR/94	41	13.5	1.57E+04	1	4	60	8.6E-14	2.4E-14	7.2E-15	HOT BELT AREA #18083N
22/MAR/94	26/MAR/94	75	14.5	3.08E+04	1	10	50	3.1E-14	1.2E-14	5.8E-15	HOT BELT AREA #18083N
22/MAR/94	24/MAR/94	56	13.9	2.20E+04	2	5	109	1.4E-13	2.9E-15	7.3E-15	HOT BELT AREA #18083N
22/MAR/94	25/MAR/94	57	14.2	2.29E+04	1	9	55	4.8E-14	1.6E-14	7.3E-15	HOT BELT AREA #18083N
22/MAR/94	25/MAR/94	61	14.2	2.45E+04	2	7	30	2.9E-14	1.5E-15	7.7E-15	HOT BELT AREA #18083N
22/MAR/94	25/MAR/94	38	14.8	1.59E+04	2	7	38	6.0E-14	2.5E-15	1.2E-14	HOT BELT AREA #18083N
23/MAR/94	26/MAR/94	107	15.5	4.70E+04	2	6	28	1.4E-14	7.5E-16	3.7E-15	SOUTH SIDE OF S1 #7219
23/MAR/94	26/MAR/94	103	15.0	4.38E+04	2	6	39	2.3E-14	9.2E-16	4.0E-15	SOUTH SIDE OF S1 #7219
23/MAR/94	26/MAR/94	38	15.4	1.66E+04	1	10	46	5.2E-14	2.1E-14	1.1E-14	SOUTH SIDE OF S1 #7219
23/MAR/94	28/MAR/94	48	15.5	2.11E+04	1	9	54	5.1E-14	1.8E-14	8.0E-15	SOUTH SIDE OF S1 #7219
23/MAR/94	28/MAR/94	55	15.5	2.41E+04	2	7	40	4.2E-14	1.7E-15	7.8E-15	SOUTH SIDE OF S1 #7219
23/MAR/94	28/MAR/94	67	15.5	2.94E+04	2	7	41	3.5E-14	1.4E-15	6.4E-15	SOUTH SIDE OF S1 #7219
23/MAR/94	28/MAR/94	99	14.8	4.15E+04	1	9	46	2.1E-14	8.4E-15	4.1E-15	SOUTH SIDE OF S1 #7219
23/MAR/94	26/MAR/94	113	15.0	4.80E+04	2	6	39	2.1E-14	8.4E-16	3.6E-15	S1/2 FEED BELT AREA #1082
23/MAR/94	26/MAR/94	31	15.0	1.32E+04	2	6	27	4.9E-14	2.6E-15	1.3E-14	S1/2 FEED BELT AREA #1082
23/MAR/94	28/MAR/94	107	15.0	4.55E+04	2	7	67	4.0E-14	1.1E-15	4.2E-15	S1/2 FEED BELT AREA #1082
23/MAR/94	28/MAR/94	50	15.0	2.12E+04	1	9	39	3.4E-14	1.5E-14	7.9E-15	S1/2 FEED BELT AREA #1082
23/MAR/94	29/MAR/94	116	15.5	5.09E+04	1	6	66	2.8E-14	7.8E-15	2.7E-15	S1/2 FEED BELT AREA #1082
23/MAR/94	28/MAR/94	100	15.0	4.25E+04	1	9	73	3.6E-14	1.0E-14	4.0E-15	S1/2 FEED BELT AREA #1082
23/MAR/94	26/MAR/94	29	14.0	1.15E+04	2	7	41	9.1E-14	3.6E-15	1.6E-14	DUMP TRUCK AREA #7218
23/MAR/94	26/MAR/94	53	13.8	2.07E+04	1	10	66	6.5E-14	2.0E-14	8.6E-15	DUMP TRUCK AREA #7218
23/MAR/94	26/MAR/94	55	13.8	2.15E+04	1	10	55	5.0E-14	1.8E-14	8.2E-15	DUMP TRUCK AREA #7218
23/MAR/94	26/MAR/94	118	13.8	4.61E+04	1	10	68	3.0E-14	9.0E-15	3.8E-15	DUMP TRUCK AREA #7218
23/MAR/94	26/MAR/94	30	13.8	1.17E+04	1	10	47	7.6E-14	3.0E-14	1.5E-14	DUMP TRUCK AREA #7218
23/MAR/94	28/MAR/94	43	13.6	1.66E+04	1	9	55	6.7E-14	2.3E-14	1.0E-14	DUMP TRUCK AREA #7218
23/MAR/94	28/MAR/94	27	13.8	1.06E+04	2	7	27	5.8E-14	3.3E-15	1.8E-14	DUMP TRUCK AREA #7218
23/MAR/94	28/MAR/94	60	13.8	2.34E+04	2	7	30	3.0E-14	1.6E-15	8.1E-15	DUMP TRUCK AREA #7218
23/MAR/94	28/MAR/94	39	13.8	1.52E+04	1	9	63	8.5E-14	2.6E-14	1.1E-14	DUMP TRUCK AREA #7218
23/MAR/94	28/MAR/94	38	13.8	1.49E+04	2	7	32	5.2E-14	2.5E-15	1.3E-14	DUMP TRUCK AREA #7218
23/MAR/94	26/MAR/94	98	14.2	3.94E+04	1	10	58	2.9E-14	9.9E-15	4.5E-15	HOT BELT AREA #18083N
23/MAR/94	26/MAR/94	40	14.0	1.59E+04	2	6	55	9.5E-14	3.0E-15	1.1E-14	HOT BELT AREA #18083N
23/MAR/94	26/MAR/94	45	14.0	1.78E+04	1	10	41	4.2E-14	1.9E-14	9.9E-15	HOT BELT AREA #18083N
23/MAR/94	26/MAR/94	46	14.3	1.86E+04	2	6	55	8.1E-14	2.5E-15	9.4E-15	HOT BELT AREA #18083N
23/MAR/94	26/MAR/94	32	14.3	1.30E+04	2	6	35	6.9E-14	3.0E-15	1.4E-14	HOT BELT AREA #18083N
23/MAR/94	28/MAR/94	33	14.0	1.31E+04	1	9	52	7.9E-14	2.8E-14	1.3E-14	HOT BELT AREA #18083N
23/MAR/94	28/MAR/94	60	14.0	2.38E+04	1	9	49	4.0E-14	1.5E-14	7.1E-15	HOT BELT AREA #18083N
23/MAR/94	28/MAR/94	32	14.0	1.27E+04	2	7	32	6.0E-14	3.0E-15	1.5E-14	HOT BELT AREA #18083N
23/MAR/94	28/MAR/94	54	14.0	2.14E+04	2	7	36	4.2E-14	1.8E-15	8.8E-15	HOT BELT AREA #18083N
24/MAR/94	29/MAR/94	88	15.8	3.94E+04	2	3	44	3.2E-14	1.0E-15	3.1E-15	SOUTH SIDE OF S1 #7219
24/MAR/94	29/MAR/94	58	15.3	2.51E+04	1	6	57	4.9E-14	1.5E-14	5.5E-15	SOUTH SIDE OF S1 #7219
24/MAR/94	29/MAR/94	55	15.5	2.41E+04	2	3	33	3.8E-14	1.5E-15	5.1E-15	SOUTH SIDE OF S1 #7219
24/MAR/94	29/MAR/94	66	15.5	2.90E+04	1	6	72	5.5E-14	1.4E-14	4.7E-15	SOUTH SIDE OF S1 #7219
24/MAR/94	29/MAR/94	111	15.5	4.87E+04	1	6	66	3.0E-14	8.2E-15	2.8E-15	SOUTH SIDE OF S1 #7219
24/MAR/94	30/MAR/94	69	15.8	3.09E+04	2	9	39	3.0E-14	1.3E-15	6.9E-15	SOUTH SIDE OF S1 #7219
24/MAR/94	29/MAR/94	44	16.5	2.06E+04	2	3	30	4.0E-14	1.7E-15	6.0E-15	SOUTH SIDE OF S1 #7219
24/MAR/94	29/MAR/94	87	15.2	3.75E+04	2	3	59	4.6E-14	1.3E-15	3.3E-15	S1/2 FEED BELT AREA #1082
24/MAR/94	29/MAR/94	50	15.0	2.12E+04	1	6	60	6.1E-14	1.8E-14	6.5E-15	S1/2 FEED BELT AREA #1082
24/MAR/94	29/MAR/94	59	15.0	2.51E+04	2	3	36	4.0E-14	1.5E-15	4.9E-15	S1/2 FEED BELT AREA #1082
24/MAR/94	29/MAR/94	72	15.0	3.06E+04	2	3	37	3.4E-14	1.2E-15	4.0E-15	S1/2 FEED BELT AREA #1082
24/MAR/94	28/MAR/94	108	15.0	4.59E+04	2	7	30	1.5E-14	8.0E-16	4.1E-15	S1/2 FEED BELT AREA #1082

Sample Date	Count Date	Sample Time (min)	Flow Rate (cfm)	Sample Volume (liters)	Instr No.	Gross Bkg Cnt	Gross Sample Cnt	Reported Activity (uCi/ml)	2 Std Dev. +/-	Critical Level (uCi/ml)	Sample Area Description
24/MAR/94	30/MAR/94	109	15.0	4.63E+04	1	5	54	2.5E-14	7.8E-15	2.7E-15	S1/2 FEED BELT AREA #1082
24/MAR/94	29/MAR/94	39	14.0	1.55E+04	1	6	45	6.1E-14	2.2E-14	8.9E-15	DUMP TRUCK AREA #7218
24/MAR/94	29/MAR/94	45	14.0	1.78E+04	2	3	28	4.3E-14	1.9E-15	6.9E-15	DUMP TRUCK AREA #7218
24/MAR/94	29/MAR/94	57	13.8	2.23E+04	1	6	86	8.6E-14	2.0E-14	6.2E-15	DUMP TRUCK AREA #7218
24/MAR/94	29/MAR/94	78	13.8	3.05E+04	2	3	58	5.5E-14	1.5E-15	4.1E-15	DUMP TRUCK AREA #7218
24/MAR/94	30/MAR/94	60	13.8	2.34E+04	1	5	42	3.8E-14	1.4E-14	5.3E-15	DUMP TRUCK AREA #7218
24/MAR/94	30/MAR/94	41	13.8	1.60E+04	1	5	39	5.1E-14	1.9E-14	7.8E-15	DUMP TRUCK AREA #7218
24/MAR/94	29/MAR/94	30	14.6	1.24E+04	1	6	53	9.1E-14	2.9E-14	1.1E-14	DUMP TRUCK AREA #7218
24/MAR/94	29/MAR/94	35	14.2	1.41E+04	2	3	54	1.1E-13	3.2E-15	8.8E-15	HOT BELT AREA #18083N
24/MAR/94	29/MAR/94	49	14.0	1.94E+04	2	3	49	7.3E-14	2.2E-15	6.4E-15	HOT BELT AREA #18083N
24/MAR/94	29/MAR/94	42	14.0	1.67E+04	1	6	58	7.5E-14	2.3E-14	8.2E-15	HOT BELT AREA #18083N
24/MAR/94	29/MAR/94	60	14.3	2.43E+04	1	6	60	5.3E-14	1.6E-14	5.7E-15	HOT BELT AREA #18083N
24/MAR/94	30/MAR/94	57	14.2	2.29E+04	2	9	42	4.4E-14	1.9E-15	9.4E-15	HOT BELT AREA #18083N
24/MAR/94	29/MAR/94	33	14.2	1.33E+04	1	6	39	6.0E-14	2.4E-14	1.0E-14	HOT BELT AREA #18083N
25/MAR/94	30/MAR/94	74	16.7	3.50E+04	1	5	43	2.6E-14	9.3E-15	3.6E-15	SOUTH SIDE OF S1 #7219
25/MAR/94	30/MAR/94	90	16.5	4.21E+04	1	5	40	2.0E-14	7.5E-15	3.0E-15	SOUTH SIDE OF S1 #7219
25/MAR/94	30/MAR/94	66	16.5	3.08E+04	2	9	22	1.3E-14	1.1E-15	7.0E-15	SOUTH SIDE OF S1 #7219
25/MAR/94	30/MAR/94	124	16.5	5.79E+04	2	9	28	1.0E-14	6.3E-16	3.7E-15	SOUTH SIDE OF S1 #7219
25/MAR/94	31/MAR/94	92	16.5	4.30E+04	1	8	48	2.2E-14	8.2E-15	3.7E-15	SOUTH SIDE OF S1 #7219
25/MAR/94	31/MAR/94	62	16.5	2.90E+04	1	8	37	2.4E-14	1.1E-14	5.5E-15	SOUTH SIDE OF S1 #7219
25/MAR/94	31/MAR/94	70	17.0	3.37E+04	2	5	27	2.0E-14	1.0E-15	4.7E-15	S1/2 FEED BELT AREA #1082
25/MAR/94	30/MAR/94	96	16.8	4.57E+04	2	9	20	7.4E-15	7.1E-16	4.7E-15	S1/2 FEED BELT AREA #1082
25/MAR/94	30/MAR/94	99	16.2	4.54E+04	1	5	47	2.2E-14	7.5E-15	2.8E-15	S1/2 FEED BELT AREA #1082
25/MAR/94	31/MAR/94	71	16.2	3.26E+04	1	8	51	3.2E-14	1.1E-14	4.9E-15	S1/2 FEED BELT AREA #1082
25/MAR/94	30/MAR/94	65	14.5	2.67E+04	2	9	24	1.7E-14	1.3E-15	8.0E-15	DUMP TRUCK AREA #7218
25/MAR/94	30/MAR/94	95	14.5	3.90E+04	1	5	35	1.8E-14	7.6E-15	3.2E-15	DUMP TRUCK AREA #7218
25/MAR/94	30/MAR/94	64	14.9	2.70E+04	1	5	35	2.7E-14	1.1E-14	4.6E-15	DUMP TRUCK AREA #7218
25/MAR/94	30/MAR/94	125	14.5	5.13E+04	1	5	42	1.7E-14	6.3E-15	2.4E-15	DUMP TRUCK AREA #7218
25/MAR/94	31/MAR/94	96	15.1	4.11E+04	2	5	27	1.6E-14	8.3E-16	3.9E-15	DUMP TRUCK AREA #7218
25/MAR/94	30/MAR/94	84	15.1	3.59E+04	2	9	27	1.5E-14	1.0E-15	6.0E-15	HOT BELT AREA #18083N
26/MAR/94	01/APR/94	111	16.5	5.19E+04	2	3	19	9.5E-15	5.4E-16	2.4E-15	SOUTH SIDE OF S1 #7219
26/MAR/94	28/MAR/94	130	16.5	6.07E+04	1	8	46	1.5E-14	5.7E-15	2.6E-15	SOUTH SIDE OF S1 #7219
26/MAR/94	01/APR/94	111	17.5	5.50E+04	1	9	41	1.4E-14	6.1E-15	3.1E-15	S1/2 FEED BELT AREA #1082
26/MAR/94	31/MAR/94	64	16.0	2.90E+04	2	5	27	2.3E-14	1.2E-15	5.5E-15	S1/2 FEED BELT AREA #1082
26/MAR/94	31/MAR/94	66	16.2	3.03E+04	1	8	38	2.4E-14	1.1E-14	5.2E-15	S1/2 FEED BELT AREA #1082
26/MAR/94	01/APR/94	112	15.0	4.76E+04	1	9	43	1.7E-14	7.1E-15	3.5E-15	DUMP TRUCK AREA #7218
26/MAR/94	31/MAR/94	63	15.5	2.77E+04	1	8	89	7.0E-14	1.7E-14	5.7E-15	DUMP TRUCK AREA #7218
26/MAR/94	31/MAR/94	61	15.5	2.68E+04	2	5	30	2.9E-14	1.3E-15	6.0E-15	DUMP TRUCK AREA #7218
26/MAR/94	31/MAR/94	51	14.5	2.09E+04	1	8	33	2.9E-14	1.4E-14	7.6E-15	HOT BELT AREA #18083N
26/MAR/94	31/MAR/94	51	14.5	2.09E+04	1	8	28	2.3E-14	1.3E-14	7.6E-15	HOT BELT AREA #18083N
26/MAR/94	31/MAR/94	56	14.5	2.30E+04	2	5	28	3.1E-14	1.5E-15	7.0E-15	HOT BELT AREA #18083N
28/MAR/94	01/APR/94	121	16.5	5.65E+04	1	9	47	1.6E-14	6.2E-15	3.0E-15	SOUTH SIDE OF S1 #7219
28/MAR/94	01/APR/94	65	14.5	2.67E+04	1	9	37	2.5E-14	1.2E-14	6.3E-15	SOUTH SIDE OF S1 #7219
28/MAR/94	02/APR/94	103	16.5	4.81E+04	2	4	16	7.6E-15	5.6E-16	3.0E-15	SOUTH SIDE OF S1 #7219
28/MAR/94	01/APR/94	72	17.1	3.49E+04	2	3	18	1.3E-14	7.9E-16	3.6E-15	S1/2 FEED BELT AREA #1082
28/MAR/94	02/APR/94	86	17.0	4.14E+04	1	6	41	2.0E-14	7.8E-15	3.3E-15	S1/2 FEED BELT AREA #1082
28/MAR/94	01/APR/94	171	17.1	8.28E+04	2	3	32	1.1E-14	4.3E-16	1.5E-15	S1/2 FEED BELT AREA #1082
28/MAR/94	02/APR/94	185	16.6	8.70E+04	1	6	43	1.0E-14	3.8E-15	1.6E-15	S1/2 FEED BELT AREA #1082
28/MAR/94	01/APR/94	64	15.0	2.72E+04	2	3	76	8.2E-14	2.0E-15	4.6E-15	DUMP TRUCK AREA #7218
28/MAR/94	01/APR/94	40	15.0	1.70E+04	1	9	56	6.6E-14	2.2E-14	9.9E-15	DUMP TRUCK AREA #7218
28/MAR/94	01/APR/94	36	15.0	1.53E+04	1	9	46	5.8E-14	2.3E-14	1.1E-14	DUMP TRUCK AREA #7218
28/MAR/94	01/APR/94	47	15.0	2.00E+04	1	6	43	4.5E-14	1.7E-14	6.9E-15	DUMP TRUCK AREA #7218

Sample Date	Count Date	Sample Time (min)	Flow Rate (cfm)	Sample Volume (liters)	Instr No.	Gross Bkg Cnt	Gross Sample Cnt	Reported Activity (uCi/ml)	2 Std Dev. +/-	Critical Level (uCi/ml)	Sample Area Description
28/MAR/94	01/APR/94	38	15.0	1.61E+04	2	3	44	7.8E-14	2.6E-15	7.7E-15	DUMP TRUCK AREA #7218
28/MAR/94	01/APR/94	109	15.0	4.63E+04	1	9	44	1.8E-14	7.4E-15	3.6E-15	DUMP TRUCK AREA #7218
28/MAR/94	01/APR/94	56	15.0	2.38E+04	2	3	22	2.4E-14	1.3E-15	5.2E-15	DUMP TRUCK AREA #7218
28/MAR/94	02/APR/94	48	15.3	2.08E+04	2	4	29	3.7E-14	1.7E-15	6.9E-15	DUMP TRUCK AREA #7218
28/MAR/94	02/APR/94	64	15.5	2.81E+04	1	6	36	2.6E-14	1.1E-14	4.9E-15	DUMP TRUCK AREA #7218
28/MAR/94	02/APR/94	51	15.0	2.17E+04	2	4	29	3.5E-14	1.6E-15	6.6E-15	HOT BELT AREA #18083N-1-
28/MAR/94	01/APR/94	60	14.8	2.51E+04	1	9	45	3.4E-14	1.4E-14	6.7E-15	HOT BELT AREA #18083N-1-
28/MAR/94	01/APR/94	32	14.5	1.31E+04	2	3	17	3.3E-14	2.0E-15	9.4E-15	HOT BELT AREA #18083N-2-
28/MAR/94	01/APR/94	31	14.8	1.30E+04	2	3	36	7.8E-14	2.9E-15	9.5E-15	HOT BELT AREA #18083N-3-
28/MAR/94	01/APR/94	51	15.5	2.24E+04	1	9	57	5.2E-14	1.7E-14	7.5E-15	HOT BELT AREA #18083N-4-
28/MAR/94	02/APR/94	40	14.8	1.68E+04	1	6	33	3.9E-14	1.8E-14	8.2E-15	HOT BELT AREA #18083N-4-
28/MAR/94	01/APR/94	32	15.1	1.37E+04	1	9	39	5.3E-14	2.4E-14	1.2E-14	HOT BELT AREA #18083N-5-
30/MAR/94	02/APR/94	80	15.3	3.47E+04	1	6	60	3.7E-14	1.1E-14	4.0E-15	SOUTH SIDE OF S1 #7219
30/MAR/94	02/APR/94	78	15.1	3.34E+04	1	6	54	3.5E-14	1.1E-14	4.1E-15	S1/2 FEED BELT AREA #1082
30/MAR/94	02/APR/94	78	14.0	3.09E+04	2	4	491	4.8E-13	4.3E-15	4.6E-15	DUMP TRUCK AREA #7218
30/MAR/94	02/APR/94	39	14.2	1.57E+04	1	6	55	7.5E-14	2.3E-14	8.8E-15	HOT BELT AREA #18083N
30/MAR/94	02/APR/94	26	14.0	1.03E+04	1	6	60	1.3E-13	3.7E-14	1.3E-14	HOT BELT AREA #18083N
30/MAR/94	02/APR/94	30	14.3	1.21E+04	2	4	24	5.0E-14	2.6E-15	1.2E-14	HOT BELT AREA #18083N
31/MAR/94	04/APR/94	68	14.8	2.85E+04	2	6	25	2.0E-14	1.2E-15	6.1E-15	SOUTH SIDE OF S1 #7219
31/MAR/94	04/APR/94	81	15.5	3.56E+04	2	6	31	2.2E-14	1.0E-15	4.9E-15	SOUTH SIDE OF S1 #7219
31/MAR/94	04/APR/94	101	15.0	4.29E+04	2	6	32	1.9E-14	8.6E-16	4.1E-15	SOUTH SIDE OF S1 #7219
31/MAR/94	04/APR/94	176	15.5	7.73E+04	1	6	41	1.1E-14	4.2E-15	1.8E-15	SOUTH SIDE OF S1 #7219
31/MAR/94	04/APR/94	139	14.5	5.71E+04	2	6	37	1.7E-14	6.9E-16	3.1E-15	S1/2 FEED BELT AREA #1082
31/MAR/94	04/APR/94	169	14.5	6.94E+04	1	6	54	1.7E-14	5.3E-15	2.0E-15	S1/2 FEED BELT AREA #1082
31/MAR/94	04/APR/94	62	14.4	2.53E+04	2	6	33	3.3E-14	1.5E-15	6.9E-15	DUMP TRUCK AREA #7218
31/MAR/94	04/APR/94	74	14.0	2.93E+04	1	6	50	3.6E-14	1.2E-14	4.7E-15	DUMP TRUCK AREA #7218
31/MAR/94	04/APR/94	108	14.0	4.28E+04	2	6	22	1.1E-14	7.4E-16	4.1E-15	DUMP TRUCK AREA #7218
31/MAR/94	02/APR/94	170	14.0	6.74E+04	2	4	33	1.3E-14	5.4E-16	2.1E-15	DUMP TRUCK AREA #7218
31/MAR/94	04/APR/94	31	16.8	1.47E+04	1	6	35	4.7E-14	2.0E-14	9.3E-15	HOT BELT AREA #18083N
31/MAR/94	04/APR/94	39	14.5	1.60E+04	1	6	49	6.5E-14	2.2E-14	8.6E-15	HOT BELT AREA #18083N-1-
31/MAR/94	04/APR/94	40	14.0	1.59E+04	1	6	39	5.0E-14	2.0E-14	8.7E-15	HOT BELT AREA #18083N-2-
31/MAR/94	04/APR/94	93	14.5	3.82E+04	1	6	51	2.8E-14	9.3E-15	3.6E-15	HOT BELT AREA #18083N-4-
31/MAR/94	04/APR/94	30	14.2	1.21E+04	1	6	51	9.0E-14	2.9E-14	1.1E-14	HOT BELT AREA #18083N-4-
31/MAR/94	04/APR/94	48	14.5	1.97E+04	2	6	39	5.1E-14	2.0E-15	8.9E-15	HOT BELT AREA #18083N-1-
31/MAR/94	04/APR/94	34	14.0	1.35E+04	1	6	70	1.1E-13	3.0E-14	1.0E-14	HOT BELT AREA #18083N-1-

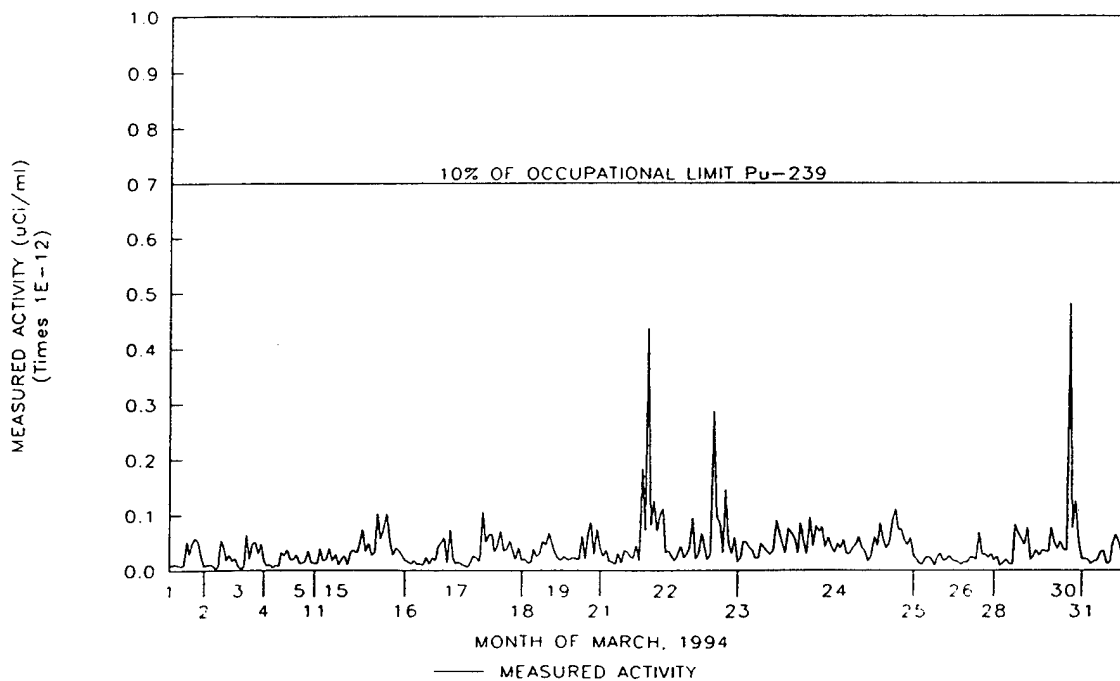
JA PLUTONIUM SITE

GROSS ALPHA RADIOACTIVITY IN AIR



JA PLUTONIUM SITE

GROSS ALPHA RADIOACTIVITY IN AIR



TMA/EBERLINE-JOHNSTON ATOLL GROSS ALPHA RADIOACTIVITY IN AIR TEST RESULTS FOR THE MONTH OF APRIL 1994

THIS REPORT WAS REVIEWED BY:

DATE: 4 APR 94

JOHNSTON ATOLL SITE MANAGER

The current 10CFR PART 20 "Standards for Protection Against Radiation" limits of concentration in air for Pu-239 are as follows:

Occupational Limit = $7 \text{ E-12 } \mu\text{Ci/ml}$

INSTRUMENT NO.1 MS-2/RD-14 SN: 354/407
CAL DUE DATE: 08/SEP/94
INSTRUMENT NO.2 ESP-2/43-1 SN:964/PR033568
CAL DUE DATE: 08/SEP/94
EFF INSTR NO.1 0.375 4 pi
EFF INSTR NO.2 0.294 4 pi
BKG COUNT TIME: 50 min
SAMPLE CNT TIME: 50 min

SITE NAME: JOHNSTON ATOLL
REPORT DATE: 01/MAY/94
COMPILED BY: S. PARKER ^{3P}
J. WOODS ^{9w}

Sample Date	Count Date	Sample Time (min)	Flow Rate (cfm)	Sample Volume (liters)	Instr No.	Gross Bkg Cnt	Gross Sample Cnt	Reported Activity (uCi/ml)	2 Std Dev. +/-	Critical Level (uCi/ml)	Sample Area Description
01/APR/94	06/APR/94	161	16.4	7.48E+04	2	7	41	1.4E-14	5.6E-16	2.5E-15	SOUTH SIDE OF S1 #7219
01/APR/94	05/APR/94	106	15.0	4.50E+04	2	8	55	3.2E-14	1.1E-15	4.5E-15	SOUTH SIDE OF S1 #7219
01/APR/94	05/APR/94	131	14.8	5.49E+04	1	3	47	1.9E-14	6.1E-15	1.8E-15	SOUTH SIDE OF S1 #7219
01/APR/94	05/APR/94	147	15.3	6.37E+04	1	3	131	4.8E-14	8.6E-15	1.5E-15	SOUTH SIDE OF S1 #7219
01/APR/94	06/APR/94	103	14.0	4.08E+04	1	4	43	2.3E-14	7.9E-15	2.7E-15	S1/2 FEED BELT #7218
01/APR/94	05/APR/94	98	14.0	3.89E+04	2	8	27	1.5E-14	9.1E-16	5.2E-15	S1/2 FEED BELT #7218
01/APR/94	05/APR/94	200	13.6	7.70E+04	1	3	48	1.4E-14	4.4E-15	1.3E-15	S1/2 FEED BELT #7218
01/APR/94	04/APR/94	145	14.0	5.75E+04	2	6	47	2.2E-14	7.6E-16	3.0E-15	S1/2 FEED BELT #7218
01/APR/94	06/APR/94	162	14.5	6.65E+04	1	4	46	1.5E-14	5.0E-15	1.7E-15	S1/2 GATE AREA #1082
01/APR/94	05/APR/94	104	13.5	3.98E+04	1	3	51	2.9E-14	8.7E-15	2.4E-15	S1/2 GATE AREA #1082
01/APR/94	05/APR/94	134	13.6	5.16E+04	2	8	34	1.5E-14	7.5E-16	3.9E-15	S1/2 GATE AREA #1082
01/APR/94	05/APR/94	147	13.9	5.79E+04	2	8	38	1.6E-14	7.0E-16	3.5E-15	S1/2 GATE AREA #1082
01/APR/94	05/APR/94	22	12.8	7.97E+03	1	3	289	8.6E-13	1.0E-13	1.2E-14	S1/2 HOT BELT #18083N-1-
01/APR/94	06/APR/94	60	14.0	2.38E+04	1	4	53	4.9E-14	1.5E-14	4.7E-15	S1/2 HOT BELT #18083N-1-
01/APR/94	06/APR/94	43	14.0	1.70E+04	2	7	25	3.2E-14	2.0E-15	1.1E-14	S1/2 HOT BELT #18083N-2-
01/APR/94	06/APR/94	41	14.0	1.63E+04	1	4	49	6.7E-14	2.1E-14	6.9E-15	S1/2 HOT BELT #18083N-3-
01/APR/94	05/APR/94	50	13.6	1.93E+04	1	3	723	9.0E-13	6.6E-14	5.0E-15	S1/2 HOT BELT #18083N-1-
01/APR/94	05/APR/94	58	14.0	2.30E+04	1	3	54	5.3E-14	1.5E-14	4.2E-15	S1/2 HOT BELT #18083N-3-
01/APR/94	07/APR/94	67	14.5	2.75E+04	1	5	60	4.8E-14	1.4E-14	4.6E-15	S1/2 HOT BELT #18083N-4-
01/APR/94	05/APR/94	32	13.2	1.20E+04	2	8	188	4.6E-13	7.0E-15	1.7E-14	S1/2 HOT BELT #18083N-4-
02/APR/94	06/APR/94	150	15.5	6.58E+04	2	7	45	1.8E-14	6.6E-16	2.9E-15	SOUTH SIDE OF S1 #7219
02/APR/94	06/APR/94	118	15.5	5.18E+04	1	4	51	2.2E-14	6.7E-15	2.2E-15	SOUTH SIDE OF S1 #7219
02/APR/94	07/APR/94	153	15.1	6.54E+04	1	5	53	1.8E-14	5.5E-15	1.9E-15	SOUTH SIDE OF S1 #7219
02/APR/94	06/APR/94	134	14.5	5.50E+04	1	4	46	1.8E-14	6.1E-15	2.0E-15	S1/2 GATE AREA #1082
02/APR/94	06/APR/94	156	14.5	6.41E+04	1	4	40	1.4E-14	4.9E-15	1.8E-15	S1/2 GATE AREA #1082
02/APR/94	07/APR/94	119	15.0	5.06E+04	1	5	41	1.7E-14	6.3E-15	2.5E-15	S1/2 GATE AREA #1082
02/APR/94	06/APR/94	91	14.5	3.74E+04	1	4	48	2.8E-14	9.1E-15	3.0E-15	S1/2 FEED BELT #7218

Sample Date	Count Date	Sample Time (min)	Flow Rate (cfm)	Sample Volume (liters)	Instr No.	Gross Bkg Cnt	Gross Sample Cnt	Reported Activity (uCi/ml)	2 Std Dev. +/-	Critical Level (uCi/ml)	Sample Area Description
02/APR/94	06/APR/94	119	14.0	4.72E+04	1	4	48	2.2E-14	7.2E-15	2.4E-15	S1/2 FEED BELT #7218
02/APR/94	07/APR/94	202	13.8	7.89E+04	2	7	37	1.2E-14	5.0E-16	2.4E-15	S1/2 FEED BELT #7218
02/APR/94	06/APR/94	43	14.3	1.74E+04	2	7	22	2.6E-14	1.9E-15	1.1E-14	S1/2 HOT BELT #18083N-4-
02/APR/94	06/APR/94	53	13.7	2.06E+04	2	7	56	7.3E-14	2.3E-15	9.2E-15	S1/2 HOT BELT #18083N-4-
02/APR/94	06/APR/94	89	14.0	3.53E+04	2	7	45	3.3E-14	1.2E-15	5.4E-15	S1/2 HOT BELT #18083N-1-
02/APR/94	06/APR/94	75	14.0	2.97E+04	2	7	57	5.2E-14	1.6E-15	6.4E-15	S1/2 HOT BELT #18083N-3-
02/APR/94	06/APR/94	34	13.5	1.30E+04	2	7	30	5.4E-14	2.8E-15	1.5E-14	S1/2 HOT BELT #18083N-1-
05/APR/94	07/APR/94	78	15.0	3.31E+04	1	5	39	2.5E-14	9.4E-15	3.8E-15	SOUTH SIDE OF S1 #7219
05/APR/94	07/APR/94	192	15.0	8.16E+04	1	5	44	1.1E-14	4.0E-15	1.5E-15	SOUTH SIDE OF S1 #7219
05/APR/94	07/APR/94	140	14.7	5.83E+04	2	7	31	1.3E-14	6.4E-16	3.2E-15	SOUTH SIDE OF S1 #7219
05/APR/94	08/APR/94	146	14.5	6.00E+04	1	6	49	1.7E-14	5.8E-15	2.3E-15	SOUTH SIDE OF S1 #7219
05/APR/94	07/APR/94	179	13.8	7.00E+04	2	7	28	9.2E-15	5.1E-16	2.7E-15	S1/2 GATE AREA #1082
05/APR/94	07/APR/94	322	13.8	1.26E+05	1	5	41	6.9E-15	2.5E-15	1.0E-15	S1/2 GATE AREA #1082
05/APR/94	07/APR/94	187	14.3	7.57E+04	2	7	24	6.9E-15	4.4E-16	2.5E-15	S1/2 FEED BELT #7218
05/APR/94	08/APR/94	149	13.7	5.78E+04	2	5	25	1.1E-14	5.7E-16	2.8E-15	S1/2 FEED BELT #7218
05/APR/94	07/APR/94	142	14.0	5.63E+04	1	5	48	1.8E-14	6.1E-15	2.2E-15	S1/2 FEED BELT #7218
05/APR/94	07/APR/94	37	14.3	1.50E+04	2	7	33	5.3E-14	2.5E-15	1.3E-14	S1/2 ROPE AREA #18083N-2-
05/APR/94	07/APR/94	33	14.0	1.31E+04	2	7	34	6.3E-14	2.9E-15	1.4E-14	S1/2 ROPE AREA #18083N-2-
05/APR/94	07/APR/94	30	13.5	1.15E+04	1	5	47	8.8E-14	3.0E-14	1.1E-14	S1/2 ROPE AREA #18083N-2-
05/APR/94	07/APR/94	50	13.0	1.84E+04	1	5	41	4.7E-14	1.7E-14	6.8E-15	S1/2 ROPE AREA #18083N-1-
05/APR/94	07/APR/94	35	13.5	1.34E+04	2	7	34	6.2E-14	2.9E-15	1.4E-14	S1/2 ROPE AREA #18083N-1-
06/APR/94	08/APR/94	200	15.0	8.50E+04	1	6	82	2.1E-14	5.2E-15	1.6E-15	SOUTH SIDE OF S1 #7219
06/APR/94	08/APR/94	231	15.5	1.01E+05	1	6	56	1.2E-14	3.7E-15	1.4E-15	SOUTH SIDE OF S1 #7219
06/APR/94	08/APR/94	119	15.0	5.06E+04	1	6	52	2.2E-14	7.1E-15	2.7E-15	SOUTH SIDE OF S1 #7219
06/APR/94	08/APR/94	204	14.0	8.09E+04	1	6	53	1.4E-14	4.5E-15	1.7E-15	S1/2 GATE AREA #1082
06/APR/94	08/APR/94	350	14.5	1.44E+05	2	5	34	6.2E-15	2.6E-16	1.1E-15	S1/2 GATE AREA #1082
06/APR/94	08/APR/94	202	14.0	8.01E+04	2	5	49	1.7E-14	5.5E-16	2.0E-15	S1/2 FEED BELT #7218
06/APR/94	08/APR/94	156	14.0	6.19E+04	2	5	38	1.6E-14	6.4E-16	2.6E-15	S1/2 FEED BELT #7218
06/APR/94	08/APR/94	195	13.8	7.62E+04	1	6	65	1.9E-14	5.2E-15	1.8E-15	S1/2 FEED BELT #7218
06/APR/94	08/APR/94	47	13.5	1.80E+04	1	6	78	9.6E-14	2.4E-14	7.6E-15	JUNCTION BOX #18083N
06/APR/94	08/APR/94	35	13.5	1.34E+04	2	5	35	6.9E-14	2.8E-15	1.2E-14	S1/2 ROPE AREA #18083N-1-
06/APR/94	08/APR/94	48	14.0	1.90E+04	1	6	42	4.5E-14	1.7E-14	7.2E-15	S1/2 ROPE AREA #18083N-2-
06/APR/94	08/APR/94	36	14.0	1.43E+04	2	5	87	1.8E-13	4.0E-15	1.1E-14	S1/2 ROPE AREA #18083N-2-
06/APR/94	08/APR/94	41	14.0	1.63E+04	2	5	27	4.1E-14	2.1E-15	9.8E-15	S1/2 ROPE AREA #18083N-2-
06/APR/94	08/APR/94	30	13.5	1.15E+04	1	6	56	1.0E-13	3.2E-14	1.2E-14	S1/2 ROPE AREA #18083N-1-
06/APR/94	08/APR/94	30	13.8	1.17E+04	2	5	34	7.6E-14	3.2E-15	1.4E-14	S1/2 ROPE AREA #18083N-3-
07/APR/94	09/APR/94	160	15.4	6.98E+04	1	11	107	3.3E-14	7.3E-15	2.7E-15	SOUTH SIDE OF S1 #7219
07/APR/94	09/APR/94	255	14.9	1.08E+05	1	11	78	1.5E-14	4.1E-15	1.7E-15	SOUTH SIDE OF S1 #7219
07/APR/94	09/APR/94	131	15.1	5.60E+04	1	11	64	2.3E-14	7.3E-15	3.3E-15	SOUTH SIDE OF S1 #7219
07/APR/94	09/APR/94	548	14.4	2.23E+05	2	4	46	5.8E-15	1.9E-16	6.4E-16	S1/2 GATE AREA #1082
07/APR/94	09/APR/94	72	13.8	2.81E+04	1	11	73	5.3E-14	1.5E-14	6.6E-15	S1/2 FEED BELT #7218
07/APR/94	09/APR/94	217	14.4	8.85E+04	2	4	34	1.0E-14	4.2E-16	1.6E-15	S1/2 FEED BELT #7218
07/APR/94	09/APR/94	256	14.1	1.02E+05	2	4	62	1.7E-14	4.8E-16	1.4E-15	S1/2 FEED BELT #7218
07/APR/94	09/APR/94	41	13.5	1.57E+04	1	6	82	1.2E-13	2.8E-14	8.8E-15	S1/2 HOT BELT #18083N-6-
07/APR/94	09/APR/94	41	12.8	1.49E+04	2	4	44	8.2E-14	2.8E-15	9.6E-15	S1/2 HOT BELT #18083N-6-
07/APR/94	09/APR/94	37	13.5	1.41E+04	2	4	22	3.9E-14	2.2E-15	1.0E-14	S1/2 HOT BELT #18083N-6-
07/APR/94	09/APR/94	40	13.5	1.53E+04	1	11	82	1.1E-13	3.0E-14	1.2E-14	S1/2 HOT BELT #18083N-4-
07/APR/94	09/APR/94	38	14.0	1.51E+04	2	4	38	6.9E-14	2.6E-15	9.5E-15	S1/2 HOT BELT #18083N-4-
07/APR/94	09/APR/94	39	14.4	1.59E+04	2	4	84	1.5E-13	3.5E-15	9.0E-15	CONTROL PANEL #18083N
07/APR/94	09/APR/94	50	13.5	1.91E+04	1	11	60	6.2E-14	2.1E-14	9.7E-15	CONTROL PANEL #18083N
08/APR/94	11/APR/94	117	15.1	5.00E+04	1	5	48	2.1E-14	6.9E-15	2.5E-15	SOUTH SIDE OF S1 #7219
08/APR/94	11/APR/94	159	14.5	6.53E+04	2	3	48	2.1E-14	6.6E-16	1.9E-15	SOUTH SIDE OF S1 #7219

Sample Date	Count Date	Sample Time (min)	Flow Rate (cfm)	Sample Volume (liters)	Instr No.	Gross Bkg Cnt	Gross Sample Cnt	Reported Activity (uCi/ml)	2 Std Dev. +/-	Critical Level (uCi/ml)	Sample Area Description
08/APR/94	11/APR/94	75	15.5	3.29E+04	2	3	29	2.4E-14	1.0E-15	3.8E-15	SOUTH SIDE OF S1 #7219
08/APR/94	11/APR/94	182	15.6	8.04E+04	1	5	64	1.8E-14	4.9E-15	1.6E-15	SOUTH SIDE OF S1 #7219
08/APR/94	11/APR/94	569	15.0	2.42E+05	2	3	30	3.4E-15	1.4E-16	5.1E-16	S1/2 GATE AREA #1082
08/APR/94	09/APR/94	111	13.8	4.34E+04	1	11	108	5.4E-14	1.2E-14	4.3E-15	S1/2 FEED BELT #7218
08/APR/94	11/APR/94	284	14.0	1.13E+05	2	3	65	1.7E-14	4.4E-16	1.1E-15	S1/2 FEED BELT #7218
08/APR/94	11/APR/94	174	14.0	6.90E+04	1	5	95	3.1E-14	6.8E-15	1.8E-15	S1/2 FEED BELT #7218
08/APR/94	11/APR/94	41	13.8	1.60E+04	2	3	30	5.2E-14	2.2E-15	7.7E-15	S1/2 HOT BELT #18083N-4-
08/APR/94	11/APR/94	82	13.5	3.14E+04	1	5	56	3.9E-14	1.2E-14	4.0E-15	S1/2 HOT BELT #18083N-4-
08/APR/94	11/APR/94	42	13.8	1.64E+04	1	5	73	1.0E-13	2.5E-14	7.6E-15	S1/2 HOT BELT #18083N-4-
08/APR/94	11/APR/94	62	12.4	2.18E+04	1	5	41	4.0E-14	1.5E-14	5.8E-15	S1/2 HOT BELT #18083N-4-
08/APR/94	11/APR/94	36	13.5	1.38E+04	2	3	25	4.9E-14	2.3E-15	9.0E-15	S1/2 HOT BELT #18083N-5-
08/APR/94	11/APR/94	50	13.5	1.91E+04	2	3	32	4.6E-14	1.9E-15	6.5E-15	JUNCTION BOX #18083N
09/APR/94	12/APR/94	154	14.8	6.45E+04	1	8	100	3.4E-14	7.6E-15	2.5E-15	SOUTH SIDE OF S1 #7219
09/APR/94	12/APR/94	213	15.0	9.05E+04	1	8	97	2.4E-14	5.3E-15	1.8E-15	SOUTH SIDE OF S1 #7219
09/APR/94	12/APR/94	343	14.0	1.36E+05	1	8	85	1.4E-14	3.3E-15	1.2E-15	S1/2 GATE AREA #1082
09/APR/94	12/APR/94	212	12.6	7.56E+04	2	3	54	2.1E-14	6.0E-16	1.6E-15	S1/2 FEED BELT #7218
09/APR/94	12/APR/94	155	13.8	6.06E+04	2	3	135	6.7E-14	1.2E-15	2.0E-15	S1/2 FEED BELT #7218
09/APR/94	11/APR/94	35	12.5	1.24E+04	2	3	28	6.2E-14	2.7E-15	1.0E-14	S1/2 HOT BELT #18083N-6-
09/APR/94	11/APR/94	57	12.5	2.02E+04	1	5	52	5.6E-14	1.8E-14	6.2E-15	S1/2 HOT BELT #18083N-6-
09/APR/94	12/APR/94	32	13.8	1.25E+04	2	3	32	7.1E-14	2.8E-15	9.9E-15	S1/2 HOT BELT #18083N-6-
09/APR/94	12/APR/94	52	13.5	1.99E+04	1	8	63	6.6E-14	2.0E-14	8.0E-15	S1/2 HOT BELT #18083N-6-
11/APR/94	13/APR/94	93	15.0	3.95E+04	2	3	45	3.3E-14	1.1E-15	3.1E-15	SOUTH SIDE OF S1 #7219
11/APR/94	13/APR/94	62	15.0	2.63E+04	1	3	34	2.8E-14	1.1E-14	3.7E-15	SOUTH SIDE OF S1 #7219
11/APR/94	12/APR/94	92	15.0	3.91E+04	2	3	105	8.0E-14	1.6E-15	3.2E-15	SOUTH SIDE OF S1 #7219
11/APR/94	12/APR/94	80	15.2	3.44E+04	1	8	249	1.7E-13	2.2E-14	4.6E-15	SOUTH SIDE OF S1 #7219
11/APR/94	13/APR/94	164	14.8	6.87E+04	2	3	214	9.4E-14	1.3E-15	1.8E-15	SOUTH SIDE OF S1 #7219
11/APR/94	13/APR/94	62	14.5	2.55E+04	2	3	31	3.4E-14	1.4E-15	4.9E-15	S1/2 GATE AREA #1082
11/APR/94	12/APR/94	74	13.8	2.89E+04	1	8	456	3.7E-13	3.5E-14	5.5E-15	S1/2 FEED BELT #7218
11/APR/94	12/APR/94	193	13.7	7.49E+04	1	10	4102	1.3E-12	4.0E-14	2.4E-15	S1/2 FEED BELT #7218
11/APR/94	12/APR/94	96	13.6	3.70E+04	2	3	85	6.8E-14	1.5E-15	3.3E-15	S1/2 FEED BELT #7218
11/APR/94	13/APR/94	181	15.0	7.69E+04	2	3	57	2.2E-14	6.1E-16	1.6E-15	S1/2 FEED BELT #7218
11/APR/94	13/APR/94	64	13.7	2.48E+04	1	10	522	5.0E-13	4.4E-14	7.1E-15	S1/2 FEED BELT #7218
11/APR/94	13/APR/94	31	12.4	1.09E+04	1	10	62	1.1E-13	3.7E-14	1.6E-14	S1/2 HOT BELT #18083N-4-
11/APR/94	13/APR/94	39	13.1	1.45E+04	1	10	74	1.1E-13	3.0E-14	1.2E-14	S1/2 HOT BELT #18083N-4-
11/APR/94	12/APR/94	37	12.6	1.32E+04	1	8	65	1.0E-13	3.0E-14	1.2E-14	S1/2 HOT BELT #18083N-6-
11/APR/94	12/APR/94	33	13.8	1.29E+04	2	3	52	1.2E-13	3.5E-15	9.6E-15	S1/2 HOT BELT #18083N-6-
11/APR/94	13/APR/94	67	13.5	2.56E+04	2	6	75	8.3E-14	2.1E-15	6.8E-15	JUNCTION BOX #18083N
11/APR/94	12/APR/94	28	12.8	1.01E+04	2	8	57	1.5E-13	4.8E-15	2.0E-14	JUNCTION BOX #18083N
11/APR/94	13/APR/94	44	12.8	1.59E+04	1	10	76	9.9E-14	2.7E-14	1.1E-14	JUNCTION BOX #18083N
12/APR/94	14/APR/94	63	14.5	2.59E+04	2	8	50	5.0E-14	1.8E-15	7.8E-15	SOUTH SIDE OF S1 #7219
12/APR/94	14/APR/94	137	15.1	5.86E+04	1	11	58	1.9E-14	6.7E-15	3.2E-15	SOUTH SIDE OF S1 #7219
12/APR/94	14/APR/94	63	15.1	2.69E+04	2	8	85	8.8E-14	2.1E-15	7.5E-15	SOUTH SIDE OF S1 #7219
12/APR/94	14/APR/94	97	14.8	4.07E+04	1	11	127	6.9E-14	1.4E-14	4.6E-15	SOUTH SIDE OF S1 #7219
12/APR/94	14/APR/94	63	14.3	2.55E+04	1	11	537	5.0E-13	4.3E-14	7.3E-15	SOUTH SIDE OF S1 #7219
12/APR/94	14/APR/94	225	15.0	9.56E+04	1	11	63	1.3E-14	4.2E-15	1.9E-15	S1/2 GATE AREA #1082
12/APR/94	14/APR/94	53	13.8	2.07E+04	2	8	61	7.8E-14	2.4E-15	9.8E-15	S1/2 FEED BELT #7218
12/APR/94	14/APR/94	47	14.0	1.86E+04	1	11	950	1.2E-12	7.8E-14	1.0E-14	S1/2 FEED BELT #7218
12/APR/94	14/APR/94	32	13.8	1.25E+04	2	8	95	2.1E-13	4.9E-15	1.6E-14	S1/2 FEED BELT #7218
12/APR/94	14/APR/94	58	15.0	2.46E+04	1	11	80	6.7E-14	1.8E-14	7.5E-15	S1/2 FEED BELT #7218
12/APR/94	14/APR/94	56	13.5	2.14E+04	2	8	75	9.6E-14	2.6E-15	9.4E-15	S1/2 FEED BELT #7218
12/APR/94	13/APR/94	53	17.0	2.55E+04	2	3	58	6.6E-14	1.8E-15	4.9E-15	CRUSHER GENERATOR #7218
12/APR/94	13/APR/94	30	17.0	1.44E+04	1	10	78	1.1E-13	3.1E-14	1.2E-14	CRUSHER GENERATOR #7218

Sample Date	Count Date	Sample Time (min)	Flow Rate (cfm)	Sample Volume (liters)	Instr No.	Gross Bkg Cnt	Gross Sample Cnt	Reported Activity (uCi/ml)	2 Std Dev. +/-	Critical Level (uCi/ml)	Sample Area Description
12/APR/94	14/APR/94	46	12.6	1.64E+04	1	11	90	1.2E-13	2.9E-14	1.1E-14	S1/2 HOT BELT #18083N-4-
12/APR/94	14/APR/94	47	13.5	1.80E+04	2	8	49	7.0E-14	2.5E-15	1.1E-14	S1/2 HOT BELT #18083N-4-
12/APR/94	14/APR/94	55	13.8	2.15E+04	1	11	90	8.8E-14	2.2E-14	8.6E-15	S1/2 HOT BELT #18083N-6-
12/APR/94	14/APR/94	40	12.8	1.45E+04	2	8	68	1.3E-13	3.6E-15	1.4E-14	S1/2 HOT BELT #18083N-6-
12/APR/94	14/APR/94	32	14.0	1.27E+04	2	8	50	1.0E-13	3.6E-15	1.6E-14	CONTROL PANEL #18083N
13/APR/94	15/APR/94	94	14.5	3.86E+04	2	5	28	1.8E-14	8.9E-16	4.1E-15	SOUTH SIDE OF S1 #7219
13/APR/94	15/APR/94	131	15.3	5.68E+04	2	5	25	1.1E-14	5.8E-16	2.8E-15	SOUTH SIDE OF S1 #7219
13/APR/94	15/APR/94	98	14.7	4.08E+04	2	5	29	1.8E-14	8.6E-16	3.9E-15	SOUTH SIDE OF S1 #7219
13/APR/94	14/APR/94	137	15.1	5.86E+04	1	11	58	1.9E-14	6.7E-15	3.2E-15	SOUTH SIDE OF S1 #7219
13/APR/94	14/APR/94	278	15.0	1.18E+05	2	8	36	7.3E-15	3.4E-16	1.7E-15	S1/2 GATE AREA #1082
13/APR/94	15/APR/94	44	14.5	1.81E+04	1	5	39	4.5E-14	1.7E-14	6.9E-15	S1/2 GATE AREA #1082
13/APR/94	15/APR/94	85	15.2	3.66E+04	1	5	36	2.0E-14	8.2E-15	3.4E-15	S1/2 GATE AREA #1082
13/APR/94	15/APR/94	31	17.0	1.49E+04	1	5	35	4.8E-14	2.0E-14	8.4E-15	CRUSHER GENERATOR #7218
13/APR/94	15/APR/94	28	17.0	1.35E+04	1	5	41	6.4E-14	2.4E-14	9.3E-15	CRUSHER GENERATOR #7218
13/APR/94	15/APR/94	43	17.0	2.07E+04	1	5	50	5.2E-14	1.7E-14	6.1E-15	CRUSHER GENERATOR #7218
13/APR/94	15/APR/94	39	17.0	1.88E+04	2	5	21	2.6E-14	1.6E-15	8.5E-15	CRUSHER GENERATOR #7218
13/APR/94	15/APR/94	43	16.7	2.03E+04	1	5	54	5.8E-14	1.8E-14	6.2E-15	CRUSHER GENERATOR #7218
13/APR/94	14/APR/94	30	15.0	1.27E+04	1	11	65	1.0E-13	3.2E-14	1.5E-14	S1/2 FEED BELT #18083N
13/APR/94	15/APR/94	26	14.0	1.03E+04	2	5	30	7.4E-14	3.4E-15	1.6E-14	S1/2 FEED BELT #18083N
14/APR/94	18/APR/94	48	15.0	2.04E+04	2	6	48	6.3E-14	2.2E-15	8.6E-15	SOUTH SIDE OF S1 #7219
14/APR/94	18/APR/94	48	15.1	2.05E+04	1	3	84	9.5E-14	2.1E-14	4.7E-15	SOUTH SIDE OF S1 #7219
14/APR/94	18/APR/94	97	14.5	3.98E+04	2	6	30	1.8E-14	9.0E-16	4.4E-15	S1/2 GATE AREA #1082
14/APR/94	18/APR/94	48	16.4	2.23E+04	2	6	37	4.3E-14	1.8E-15	7.9E-15	CRUSHER GENERATOR #7218
14/APR/94	18/APR/94	44	12.5	1.56E+04	1	3	164	2.5E-13	3.9E-14	6.2E-15	S1/2 FEED BELT #18083N
14/APR/94	18/APR/94	41	15.0	1.74E+04	2	3	59	9.9E-14	2.7E-15	7.1E-15	S1/2 FEED BELT #18083N
15/APR/94	18/APR/94	37	15.0	1.57E+04	1	3	112	1.7E-13	3.2E-14	6.2E-15	S1/2 FEED BELT #18083N
15/APR/94	18/APR/94	36	15.4	1.57E+04	2	6	380	7.3E-13	7.5E-15	1.1E-14	S1/2 FEED BELT #18083N
15/APR/94	18/APR/94	45	14.8	1.89E+04	2	6	82	1.2E-13	3.0E-15	9.3E-15	SOUTH SIDE OF S1 #7219
15/APR/94	18/APR/94	80	15.0	3.40E+04	2	6	79	6.6E-14	1.6E-15	5.2E-15	SOUTH SIDE OF S1 #7219
15/APR/94	18/APR/94	206	14.0	8.17E+04	1	3	49	1.4E-14	4.2E-15	1.2E-15	S1/2 GATE AREA #1082
15/APR/94	18/APR/94	30	16.5	1.40E+04	2	6	32	5.7E-14	2.6E-15	1.2E-14	CRUSHER GENERATOR #7218
15/APR/94	18/APR/94	30	16.5	1.40E+04	1	3	73	1.2E-13	2.9E-14	6.9E-15	CRUSHER GENERATOR #7218
15/APR/94	18/APR/94	42	16.5	1.96E+04	1	3	47	5.4E-14	1.7E-14	4.9E-15	CRUSHER GENERATOR #7218
15/APR/94	18/APR/94	37	16.7	1.75E+04	1	3	58	7.6E-14	2.1E-14	5.5E-15	CRUSHER GENERATOR #7218
18/APR/94	19/APR/94	57	14.5	2.34E+04	2	7	24	2.2E-14	1.4E-15	8.1E-15	SOUTH SIDE OF S1 #7219
18/APR/94	19/APR/94	111	15.3	4.81E+04	2	7	31	1.5E-14	7.7E-16	3.9E-15	SOUTH SIDE OF S1 #7219
18/APR/94	19/APR/94	207	14.8	8.68E+04	2	7	47	1.4E-14	5.1E-16	2.2E-15	SOUTH SIDE OF S1 #7219
18/APR/94	19/APR/94	191	15.9	8.60E+04	1	4	56	1.5E-14	4.2E-15	1.3E-15	SOUTH SIDE OF S1 #7219
18/APR/94	19/APR/94	574	14.5	2.36E+05	1	4	83	8.1E-15	1.9E-15	4.8E-16	S1/2 GATE AREA #1082
18/APR/94	19/APR/94	58	13.8	2.27E+04	1	4	51	5.0E-14	1.5E-14	4.9E-15	S/2 STEPS #7218
18/APR/94	19/APR/94	35	13.5	1.34E+04	1	4	49	8.1E-14	2.6E-14	8.4E-15	S/2 STEPS #7218
18/APR/94	19/APR/94	63	13.8	2.46E+04	2	7	52	5.6E-14	1.9E-15	7.7E-15	S/2 STEPS #7218
18/APR/94	19/APR/94	107	13.8	4.18E+04	2	7	33	1.9E-14	9.1E-16	4.5E-15	S/2 STEPS #7218
18/APR/94	19/APR/94	74	13.8	2.89E+04	1	4	54	4.2E-14	1.2E-14	3.9E-15	S/2 STEPS #7218
18/APR/94	19/APR/94	58	15.1	2.48E+04	1	4	44	3.9E-14	1.3E-14	4.5E-15	S/1 STEPS #18083N
18/APR/94	19/APR/94	61	16.0	2.76E+04	2	7	31	2.7E-14	1.3E-15	6.8E-15	S/1 STEPS #18083N
18/APR/94	19/APR/94	64	16.5	2.99E+04	1	4	53	3.9E-14	1.2E-14	3.7E-15	S/1 STEPS #18083N
18/APR/94	19/APR/94	31	15.0	1.32E+04	2	7	36	6.7E-14	3.0E-15	1.4E-14	S/1 STEPS #18083N
19/APR/94	20/APR/94	184	14.7	7.66E+04	2	6	43	1.5E-14	5.5E-16	2.3E-15	SOUTH SIDE OF S1 #7219
19/APR/94	20/APR/94	126	14.5	5.17E+04	2	6	40	2.0E-14	7.9E-16	3.4E-15	SOUTH SIDE OF S1 #7219
19/APR/94	20/APR/94	141	14.8	5.91E+04	1	5	42	1.5E-14	5.5E-15	2.1E-15	SOUTH SIDE OF S1 #7219
19/APR/94	20/APR/94	341	14.5	1.40E+05	2	6	42	7.9E-15	3.0E-16	1.3E-15	S1/2 GATE AREA #1082

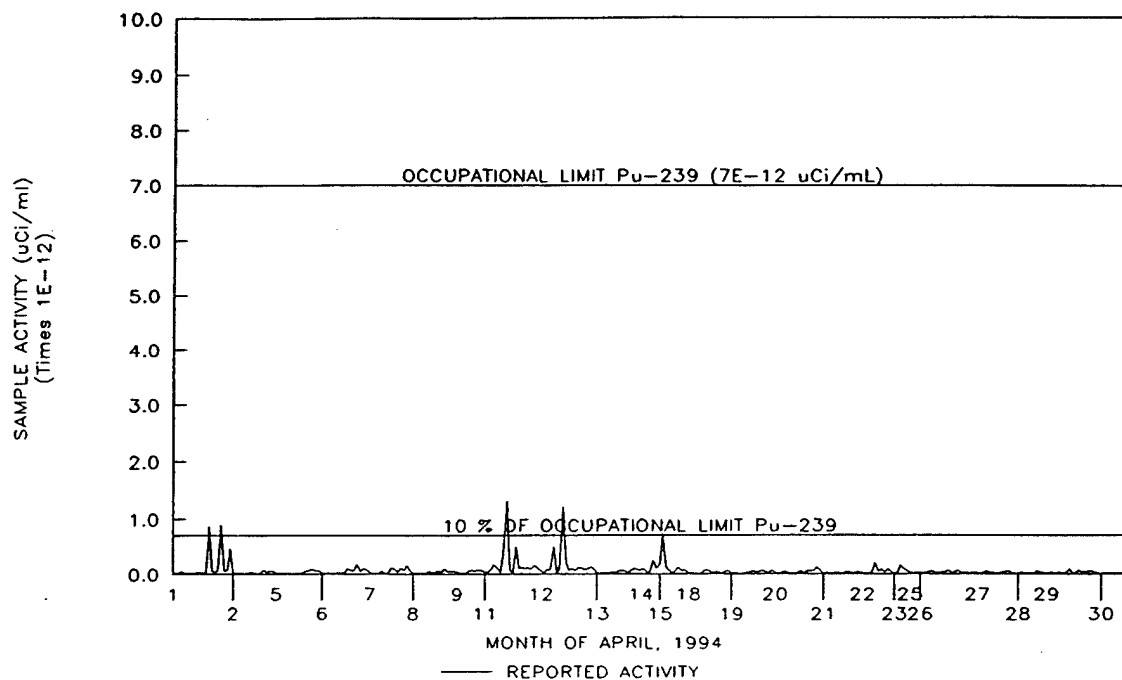
Sample Date	Count Date	Sample Time (min)	Flow Rate (cfm)	Sample Volume (liters)	Instr No.	Gross Bkg Cnt	Gross Sample Cnt	Reported Activity (uCi/ml)	2 Std Dev. +/-	Critical Level (uCi/ml)	Sample Area Description
19/APR/94	20/APR/94	222	15.0	9.43E+04	2	6	35	9.4E-15	4.1E-16	1.9E-15	S1/2 GATE AREA #1082
19/APR/94	20/APR/94	75	13.8	2.93E+04	1	5	45	3.3E-14	1.1E-14	4.3E-15	S/2 STEPS #7218
19/APR/94	20/APR/94	95	13.8	3.71E+04	1	5	60	3.6E-14	1.0E-14	3.4E-15	S/2 STEPS #7218
19/APR/94	20/APR/94	54	13.8	2.11E+04	1	5	46	4.7E-14	1.6E-14	5.9E-15	S/2 STEPS #7218
19/APR/94	20/APR/94	72	13.6	2.77E+04	1	5	49	3.8E-14	1.2E-14	4.5E-15	S/2 STEPS #7218
19/APR/94	20/APR/94	108	13.8	4.22E+04	1	5	74	3.9E-14	9.9E-15	3.0E-15	S/2 STEPS #7218
19/APR/94	20/APR/94	32	15.5	1.40E+04	2	6	37	6.8E-14	2.8E-15	1.2E-14	S/1 STEPS #18083N
19/APR/94	20/APR/94	68	16.0	3.08E+04	2	6	36	3.0E-14	1.3E-15	5.7E-15	S/1 STEPS #18083N
19/APR/94	20/APR/94	56	15.5	2.46E+04	2	6	33	3.4E-14	1.5E-15	7.1E-15	S/1 STEPS #18083N
19/APR/94	20/APR/94	52	15.5	2.28E+04	1	5	60	5.8E-14	1.7E-14	5.5E-15	S/1 STEPS #18083N
20/APR/94	21/APR/94	186	15.3	8.06E+04	1	4	56	1.6E-14	4.5E-15	1.4E-15	SOUTH SIDE OF S1 #7219
20/APR/94	21/APR/94	193	14.8	8.09E+04	1	4	53	1.5E-14	4.4E-15	1.4E-15	SOUTH SIDE OF S1 #7219
20/APR/94	21/APR/94	163	14.5	6.69E+04	2	5	40	1.6E-14	6.0E-16	2.4E-15	SOUTH SIDE OF S1 #7219
20/APR/94	22/APR/94	86	15.6	3.80E+04	2	2	66	5.2E-14	1.3E-15	2.7E-15	SOUTH SIDE OF S1 #7219
20/APR/94	21/APR/94	180	14.5	7.39E+04	1	4	49	1.5E-14	4.6E-15	1.5E-15	S1/2 GATE AREA #1082
20/APR/94	21/APR/94	182	14.5	7.47E+04	2	5	43	1.6E-14	5.6E-16	2.1E-15	S1/2 GATE AREA #1082
20/APR/94	21/APR/94	185	13.5	7.07E+04	2	5	32	1.2E-14	5.2E-16	2.3E-15	S/2 STEPS #7218
20/APR/94	21/APR/94	135	13.8	5.28E+04	2	5	38	1.9E-14	7.5E-16	3.0E-15	S/2 STEPS #7218
20/APR/94	21/APR/94	58	13.8	2.27E+04	1	4	58	5.7E-14	1.6E-14	4.9E-15	S/2 STEPS #7218
20/APR/94	22/APR/94	164	13.8	6.41E+04	1	9	49	1.5E-14	5.6E-15	2.6E-15	S/2 STEPS #7218
20/APR/94	22/APR/94	57	15.0	2.42E+04	2	7	52	5.7E-14	1.9E-15	7.8E-15	S/1 STEPS #18083N
20/APR/94	21/APR/94	54	15.5	2.37E+04	2	5	45	5.2E-14	1.8E-15	6.7E-15	S/1 STEPS #18083N
20/APR/94	21/APR/94	43	15.5	1.89E+04	1	4	46	5.3E-14	1.8E-14	5.9E-15	S/1 STEPS #18083N
20/APR/94	21/APR/94	67	15.0	2.85E+04	2	5	119	1.2E-13	2.3E-15	5.6E-15	S/1 STEPS #18083N
20/APR/94	21/APR/94	51	15.5	2.24E+04	1	4	55	5.5E-14	1.6E-14	5.0E-15	S/1 STEPS #18083N
21/APR/94	23/APR/94	228	14.7	9.49E+04	2	8	41	1.1E-14	4.4E-16	2.1E-15	SOUTH SIDE OF S1 #7219
21/APR/94	23/APR/94	173	14.7	7.20E+04	1	8	58	1.7E-14	5.3E-15	2.2E-15	SOUTH SIDE OF S1 #7219
21/APR/94	23/APR/94	177	14.7	7.37E+04	2	8	30	9.1E-15	5.0E-16	2.7E-15	SOUTH SIDE OF S1 #7219
21/APR/94	23/APR/94	275	14.5	1.13E+05	2	8	27	5.2E-15	3.1E-16	1.8E-15	S1/2 GATE AREA #1082
21/APR/94	22/APR/94	143	14.5	5.87E+04	2	7	37	1.6E-14	6.8E-16	3.2E-15	S1/2 GATE AREA #1082
21/APR/94	23/APR/94	168	13.5	6.42E+04	1	8	37	1.1E-14	4.9E-15	2.5E-15	S/2 STEPS #7218
21/APR/94	22/APR/94	256	13.2	9.57E+04	1	9	56	1.2E-14	4.0E-15	1.8E-15	S/2 STEPS #7218
21/APR/94	22/APR/94	98	13.8	3.83E+04	1	9	70	3.8E-14	1.1E-14	4.4E-15	S/2 STEPS #7218
21/APR/94	23/APR/94	42	15.5	1.84E+04	1	8	42	4.4E-14	1.8E-14	8.6E-15	S/1 STEPS #18083N
21/APR/94	23/APR/94	112	15.5	4.92E+04	2	8	30	1.4E-14	7.5E-16	4.1E-15	S/1 STEPS #18083N
21/APR/94	23/APR/94	73	15.1	3.12E+04	1	8	55	3.6E-14	1.2E-14	5.1E-15	S/1 STEPS #18083N
21/APR/94	23/APR/94	55	15.5	2.41E+04	2	8	39	3.9E-14	1.7E-15	8.4E-15	S/1 STEPS #18083N
22/APR/94	25/APR/94	190	15.6	8.39E+04	2	5	30	9.1E-15	4.2E-16	1.9E-15	SOUTH SIDE OF S1 #7219
22/APR/94	26/APR/94	162	14.8	6.79E+04	2	2	35	1.5E-14	5.4E-16	1.5E-15	SOUTH SIDE OF S1 #7219
22/APR/94	26/APR/94	157	13.8	6.14E+04	1	4	39	1.4E-14	5.0E-15	1.8E-15	S/2 STEPS #7218
22/APR/94	23/APR/94	189	13.5	7.23E+04	1	8	60	1.7E-14	5.4E-15	2.2E-15	S/2 STEPS #7218
22/APR/94	25/APR/94	88	13.3	3.31E+04	1	4	289	2.1E-13	2.4E-14	3.4E-15	S/2 STEPS #7218
22/APR/94	26/APR/94	46	15.5	2.02E+04	1	4	41	4.4E-14	1.6E-14	5.6E-15	S1/2 SFB ROPE #18083N
22/APR/94	26/APR/94	35	15.6	1.55E+04	1	4	59	8.5E-14	2.4E-14	7.3E-15	S1/2 SFB ROPE #18083N
22/APR/94	26/APR/94	56	15.1	2.39E+04	2	2	25	2.9E-14	1.3E-15	4.2E-15	S1/2 SFB ROPE #18083N
22/APR/94	25/APR/94	30	15.4	1.31E+04	1	4	54	9.2E-14	2.7E-14	8.6E-15	S1/2 SFB ROPE #18083N
22/APR/94	25/APR/94	53	15.9	2.39E+04	2	5	36	4.0E-14	1.6E-15	6.7E-15	S1/2 SFB ROPE #18083N
23/APR/94	26/APR/94	179	15.2	7.71E+04	2	2	37	1.4E-14	4.9E-16	1.3E-15	SOUTH SIDE OF S1 #7219
23/APR/94	26/APR/94	137	14.0	5.43E+04	1	4	56	2.3E-14	6.7E-15	2.1E-15	S/2 STEPS #7218
23/APR/94	26/APR/94	30	15.0	1.27E+04	1	4	85	1.5E-13	3.5E-14	8.8E-15	S1/2 SFB ROPE #18083N
23/APR/94	26/APR/94	29	15.5	1.27E+04	1	4	59	1.0E-13	2.9E-14	8.8E-15	S1/2 SFB ROPE #18083N
23/APR/94	26/APR/94	35	15.0	1.49E+04	2	2	27	5.2E-14	2.2E-15	6.8E-15	S1/2 SFB ROPE #18083N

Sample Date	Count Date	Sample Time (min)	Flow Rate (cfm)	Sample Volume (liters)	Instr No.	Gross Bkg Cnt	Gross Sample Cnt	Reported Activity (uCi/ml)	2 Std Dev. +/-	Critical Level (uCi/ml)	Sample Area Description
25/APR/94	26/APR/94	90	13.5	3.44E+04	2	2	35	2.9E-14	1.1E-15	2.9E-15	S/2 STEPS #7218
25/APR/94	27/APR/94	92	16.0	4.17E+04	1	6	45	2.2E-14	8.1E-15	3.3E-15	SOUTH SIDE OF S1 #7219
25/APR/94	27/APR/94	78	15.0	3.31E+04	2	6	36	2.8E-14	1.2E-15	5.3E-15	S/1 STEPS #18083N
26/APR/94	27/APR/94	88	15.0	3.74E+04	2	6	33	2.2E-14	1.0E-15	4.7E-15	SOUTH SIDE OF S1 #7219
26/APR/94	27/APR/94	104	15.1	4.45E+04	1	6	54	2.6E-14	8.2E-15	3.1E-15	SOUTH SIDE OF S1 #7219
26/APR/94	27/APR/94	74	15.1	3.16E+04	2	6	25	1.8E-14	1.1E-15	5.5E-15	SOUTH SIDE OF S1 #7219
26/APR/94	27/APR/94	39	17.4	1.92E+04	2	6	33	4.3E-14	2.0E-15	9.1E-15	SOUTH SIDE OF S1 #7219
26/APR/94	28/APR/94	69	14.8	2.89E+04	1	5	60	4.6E-14	1.3E-14	4.3E-15	SOUTH SIDE OF S1 #7219
26/APR/94	28/APR/94	114	17.0	5.49E+04	1	5	62	2.5E-14	7.0E-15	2.3E-15	SOUTH SIDE OF S1 #7219
26/APR/94	27/APR/94	195	13.6	7.51E+04	1	6	61	1.8E-14	5.1E-15	1.8E-15	S/2 STEPS #7218
26/APR/94	27/APR/94	73	13.3	2.75E+04	2	6	35	3.2E-14	1.4E-15	6.4E-15	S/2 STEPS #7218
26/APR/94	27/APR/94	71	13.6	2.73E+04	1	6	56	4.4E-14	1.4E-14	5.0E-15	S/2 STEPS #7218
26/APR/94	28/APR/94	51	12.5	1.81E+04	1	5	49	5.9E-14	1.9E-14	6.9E-15	S/2 STEPS #7218
26/APR/94	28/APR/94	131	13.4	4.97E+04	2	6	50	2.7E-14	9.0E-16	3.5E-15	S/2 STEPS #7218
26/APR/94	27/APR/94	52	14.8	2.18E+04	1	6	44	4.2E-14	1.5E-14	6.3E-15	S/1 STEPS #18083N
26/APR/94	27/APR/94	35	16.4	1.63E+04	2	6	37	5.8E-14	2.4E-15	1.1E-14	S/1 STEPS #18083N
26/APR/94	27/APR/94	36	16.0	1.63E+04	2	6	16	1.9E-14	1.7E-15	1.1E-14	S/1 STEPS #18083N
26/APR/94	27/APR/94	52	15.1	2.22E+04	1	6	35	3.1E-14	1.4E-14	6.2E-15	S/1 STEPS #18083N
26/APR/94	27/APR/94	74	15.0	3.14E+04	1	6	37	2.4E-14	9.8E-15	4.4E-15	S/1 STEPS #18083N
26/APR/94	28/APR/94	60	15.5	2.63E+04	2	6	22	1.9E-14	1.2E-15	6.7E-15	S/1 STEPS #18083N
26/APR/94	28/APR/94	63	15.5	2.77E+04	2	6	33	3.0E-14	1.4E-15	6.3E-15	S/1 STEPS #18083N
27/APR/94	28/APR/94	102	15.2	4.39E+04	2	6	39	2.3E-14	9.2E-16	4.0E-15	SOUTH SIDE OF S1 #7219
27/APR/94	28/APR/94	99	15.1	4.23E+04	2	6	33	2.0E-14	8.9E-16	4.1E-15	SOUTH SIDE OF S1 #7219
27/APR/94	29/APR/94	72	16.2	3.30E+04	1	7	42	2.5E-14	1.0E-14	4.5E-15	SOUTH SIDE OF S1 #7219
27/APR/94	29/APR/94	223	15.1	9.54E+04	1	7	189	4.6E-14	6.9E-15	1.6E-15	SOUTH SIDE OF S1 #7219
27/APR/94	28/APR/94	99	13.8	3.87E+04	1	5	64	3.7E-14	1.0E-14	3.2E-15	S/2 STEPS #7218
27/APR/94	28/APR/94	103	12.9	3.76E+04	2	6	37	2.5E-14	1.0E-15	4.7E-15	S/2 STEPS #7218
27/APR/94	28/APR/94	80	14.8	3.35E+04	1	5	31	1.9E-14	8.4E-15	3.7E-15	S/2 STEPS #7218
27/APR/94	29/APR/94	173	13.5	6.61E+04	1	7	46	1.4E-14	5.2E-15	2.2E-15	S/2 STEPS #7218
27/APR/94	28/APR/94	53	15.5	2.33E+04	1	5	47	4.3E-14	1.5E-14	5.4E-15	S1/2 HOT BELT #18083N-6-
27/APR/94	28/APR/94	51	15.5	2.24E+04	2	6	37	4.2E-14	1.8E-15	7.8E-15	S1/2 HOT BELT #18083N-6-
27/APR/94	28/APR/94	44	15.5	1.93E+04	1	5	51	5.7E-14	1.8E-14	6.5E-15	S1/2 HOT BELT #18083N-6-
27/APR/94	29/APR/94	69	16.0	3.13E+04	2	5	28	2.3E-14	1.1E-15	5.1E-15	S1/2 HOT BELT #18083N-6-
27/APR/94	29/APR/94	65	16.0	2.95E+04	2	5	18	1.4E-14	9.8E-16	5.4E-15	S1/2 HOT BELT #18083N-6-
28/APR/94	29/APR/94	107	15.1	4.58E+04	2	5	21	1.1E-14	6.7E-16	3.5E-15	SOUTH SIDE OF S1 #7219
28/APR/94	29/APR/94	78	16.0	3.53E+04	1	7	49	2.9E-14	1.0E-14	4.2E-15	SOUTH SIDE OF S1 #7219
28/APR/94	29/APR/94	240	16.1	1.09E+05	1	7	78	1.6E-14	4.0E-15	1.4E-15	SOUTH SIDE OF S1 #7219
28/APR/94	29/APR/94	110	14.0	4.36E+04	1	7	42	1.9E-14	7.6E-15	3.4E-15	S/2 STEPS #7218
28/APR/94	29/APR/94	76	14.5	3.12E+04	2	5	28	2.3E-14	1.1E-15	5.1E-15	S/2 STEPS #7218
28/APR/94	29/APR/94	241	14.5	9.90E+04	2	5	38	1.0E-14	4.0E-16	1.6E-15	S/2 STEPS #7218
28/APR/94	29/APR/94	31	15.5	1.36E+04	1	7	33	4.6E-14	2.2E-14	1.1E-14	S1/2 HOT BELT #18083N-6-
28/APR/94	29/APR/94	73	16.3	3.37E+04	2	5	36	2.8E-14	1.1E-15	4.7E-15	S1/2 HOT BELT #18083N-6-
28/APR/94	29/APR/94	70	19.0	3.77E+04	2	5	26	1.7E-14	8.9E-16	4.2E-15	S1/2 HOT BELT #18083N-6-
29/APR/94	30/APR/94	95	16.5	4.44E+04	2	4	26	1.5E-14	7.4E-16	3.2E-15	SOUTH SIDE OF S1 #7219
29/APR/94	30/APR/94	86	16.2	3.95E+04	1	6	45	2.4E-14	8.5E-15	3.5E-15	SOUTH SIDE OF S1 #7219
29/APR/94	30/APR/94	41	16.1	1.87E+04	2	4	24	3.3E-14	1.7E-15	7.6E-15	SOUTH SIDE OF S1 #7219
29/APR/94	30/APR/94	177	15.6	7.82E+04	2	4	33	1.1E-14	4.7E-16	1.8E-15	SOUTH SIDE OF S1 #7219
29/APR/94	30/APR/94	86	15.0	3.65E+04	1	6	48	2.8E-14	9.5E-15	3.8E-15	SOUTH SIDE OF S1 #7219
29/APR/94	30/APR/94	93	14.5	3.82E+04	1	6	26	1.3E-14	7.0E-15	3.6E-15	S/2 STEPS #7218
29/APR/94	30/APR/94	83	14.0	3.29E+04	2	4	28	2.2E-14	1.0E-15	4.3E-15	S/2 STEPS #7218
29/APR/94	30/APR/94	43	14.3	1.74E+04	1	6	65	8.1E-14	2.3E-14	7.9E-15	S/2 STEPS #7218
29/APR/94	30/APR/94	164	13.9	6.46E+04	1	6	60	2.0E-14	5.9E-15	2.1E-15	S/2 STEPS #7218

Sample Date	Count Date	Sample Time (min)	Flow Rate (cfm)	Sample Volume (liters)	Instr No.	Gross Bkg Cnt	Gross Sample Cnt	Reported Activity (uCi/ml)	2 Std Dev. +/-	Critical Level (uCi/ml)	Sample Area Description
29/APR/94	30/APR/94	93	14.6	3.85E+04	2	4	27	1.8E-14	8.7E-16	3.7E-15	S/2 STEPS #7218
29/APR/94	30/APR/94	57	15.4	2.49E+04	1	6	72	6.4E-14	1.7E-14	5.5E-15	S1/2 HOT BELT #18083N-4-
29/APR/94	30/APR/94	31	17.2	1.51E+04	1	6	29	3.7E-14	1.8E-14	9.1E-15	S1/2 HOT BELT #18083N-4-
29/APR/94	30/APR/94	46	13.8	1.80E+04	1	6	38	4.3E-14	1.7E-14	7.6E-15	S1/2 HOT BELT #18083N-4-
29/APR/94	30/APR/94	33	17.5	1.64E+04	2	4	25	3.9E-14	2.0E-15	8.7E-15	S1/2 HOT BELT #18083N-4-
29/APR/94	30/APR/94	51	18.4	2.66E+04	1	6	66	5.4E-14	1.5E-14	5.2E-15	S1/2 HOT BELT #18083N-4-
29/APR/94	30/APR/94	49	18.1	2.51E+04	2	4	36	3.9E-14	1.5E-15	5.7E-15	S1/2 HOT BELT #18083N-4-
29/APR/94	30/APR/94	72	17.9	3.65E+04	1	6	35	1.9E-14	8.3E-15	3.8E-15	S1/2 HOT BELT #18083N-4-
30/APR/94	02/MAY/94	118	16.2	5.41E+04	2	3	25	1.2E-14	5.9E-16	2.3E-15	SOUTH SIDE OF S1 #7219
30/APR/94	30/APR/94	181	16.2	8.30E+04	2	4	51	1.7E-14	5.4E-16	1.7E-15	SOUTH SIDE OF S1 #7219
30/APR/94	02/MAY/94	82	15.9	3.69E+04	2	3	33	2.5E-14	9.8E-16	3.4E-15	SOUTH SIDE OF S1 #7219
30/APR/94	02/MAY/94	117	13.9	4.61E+04	1	9	55	2.4E-14	8.2E-15	3.7E-15	S/2 STEPS #7218
30/APR/94	02/MAY/94	182	13.8	7.11E+04	1	9	46	1.2E-14	4.9E-15	2.4E-15	S/2 STEPS #7218
30/APR/94	02/MAY/94	83	13.8	3.24E+04	1	9	44	2.6E-14	1.1E-14	5.2E-15	S/2 STEPS #7218
30/APR/94	02/MAY/94	61	18.1	3.13E+04	2	3	28	2.5E-14	1.1E-15	4.0E-15	S1/2 HOT BELT #18083N-4-
30/APR/94	02/MAY/94	64	18.3	3.32E+04	1	9	46	2.7E-14	1.1E-14	5.1E-15	S1/2 HOT BELT #18083N-4-
30/APR/94	02/MAY/94	57	17.5	2.82E+04	2	3	37	3.7E-14	1.3E-15	4.4E-15	S1/2 HOT BELT #18083N-4-
30/APR/94	02/MAY/94	51	18.1	2.61E+04	1	9	60	4.7E-14	1.5E-14	6.4E-15	S1/2 HOT BELT #18083N-4-

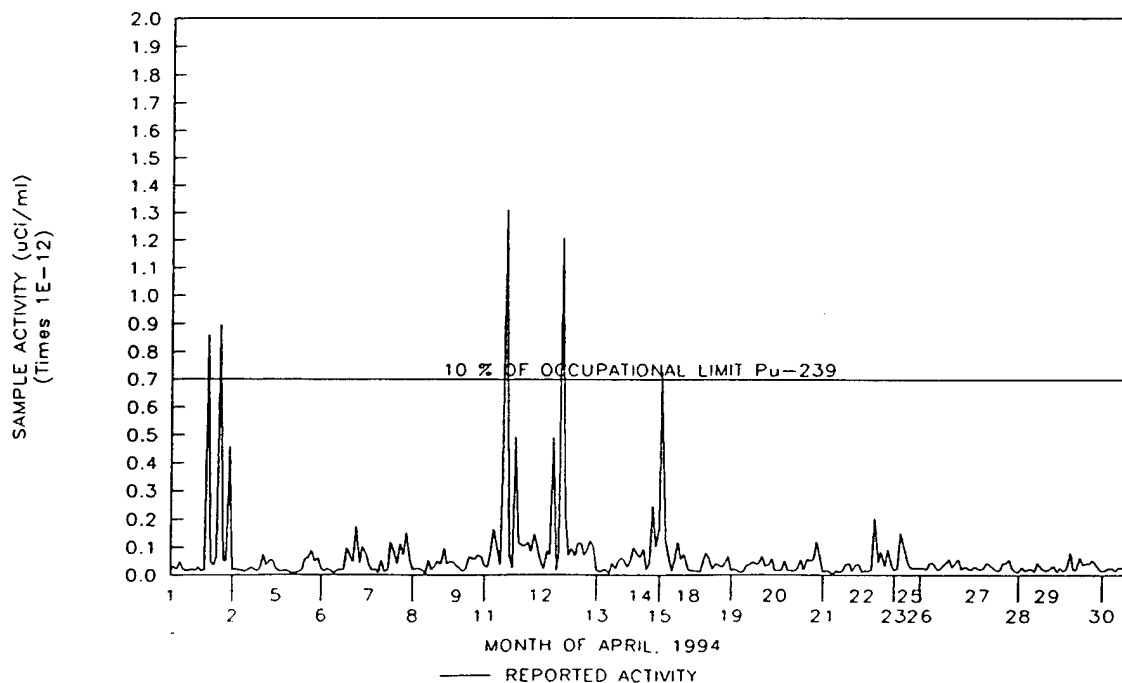
JA PLUTONIUM SITE

GROSS ALPHA RADIOACTIVITY IN AIR



JA PLUTONIUM SITE

GROSS ALPHA RADIOACTIVITY IN AIR



Appendix C

Soil Production Data

JA SOIL CLEANUP PLANT LOG OVERALL SUMMARY REPORT--COMBINED SORTERS

DAY	DATE	SORTERS	HOT (ton)	CLEAN (ton)	WR (%)	AP (MBq)	AH (MBq)	AC (MBq)	SA (Bq/kg)	UP (hr)	DN (hr)	RUN (hr)	USE (%)	PRD (%)	VOL (cy)	REC (#)	SORT (sec)	WS3 (ton)
300	07-Feb	S1234	2.88	382.50	99.3	8.6	6.3	24.2	63	0.3	0.3	9.6	93	91	305	7,406	382	189
301	08-Feb	S1234	1.88	384.68	99.5	12.6	7.1	25.9	67	0.3	0.4	9.6	93	91	306	7,584	348	186
302	09-Feb	S1234	1.63	392.59	99.6	15.4	7.9	23.0	58	0.5	0.5	9.8	90	90	312	7,425	585	189
303	10-Feb	S1234	1.75	391.95	99.6	30.4	12.3	23.7	61	0.3	0.4	9.8	93	91	312	7,526	432	199
304	14-Feb	S1234	1.60	230.07	99.3	6.2	5.8	16.8	68	0.6	0.5	5.7	76	54	184	4,292	597	124
305	15-Feb	S1234	1.88	321.62	99.4	4.6	4.8	24.2	79	0.8	1.0	8.0	78	77	256	6,128	458	191
306	17-Feb	S1234	0.91	248.62	99.6	7.7	4.0	15.2	51	0.4	0.4	6.2	85	59	198	4,883	462	200
307	18-Feb	S12	0.87	194.78	99.6	8.4	4.0	11.5	59	0.3	0.3	9.7	94	93	155	3,958	201	196
308	19-Feb	S12	0.21	121.48	99.8	0.7	0.6	5.9	49	0.4	0.3	6.0	90	58	96	2,224	1321	118
309	26-Feb	S12	17.46	148.60	89.5	54.8	29.0	10.3	54	0.5	0.6	8.3	83	79	132	6,231	25	0
310	28-Feb	S12	0.99	191.59	99.5	24.0	7.5	12.8	67	0.6	0.3	9.6	91	90	153	4,736	73	0
311	01-Mar	S12	2.08	190.39	98.9	41.7	13.7	23.6	124	0.3	0.4	9.6	93	91	153	5,314	50	0
312	02-Mar	S12	1.64	193.67	99.2	40.8	13.1	22.5	116	0.2	0.4	9.7	96	95	155	5,413	51	0
313	03-Mar	S12	2.16	186.62	98.9	58.5	19.2	24.0	129	0.6	0.4	9.4	90	88	150	5,479	44	210
314	04-Mar	S12	2.69	178.60	98.5	39.7	13.4	24.9	139	0.8	0.4	9.0	88	86	144	5,548	40	187
315	05-Mar	S12	0.35	52.02	99.3	10.0	3.1	6.1	118	0.5	0.4	2.6	74	26	42	1,422	54	54
316	11-Mar	S12	28.30	102.91	78.4	124.8	55.7	19.0	185	0.7	0.3	6.5	87	62	104	5,029	24	111
317	15-Mar	S12	24.05	117.63	83.0	78.2	47.6	30.2	258	0.9	0.6	7.0	69	67	112	5,745	22	126
318	16-Mar	S12	6.31	139.10	95.7	122.3	39.8	27.2	196	1.2	0.3	7.2	79	69	115	4,801	34	149
319	17-Mar	S12	2.33	189.74	98.8	54.4	18.3	24.2	127	0.3	0.4	9.5	93	91	152	5,306	52	202
320	18-Mar	S12	1.32	128.09	99.0	35.0	11.2	15.5	121	3.2	0.4	6.4	63	61	103	3,649	48	135
321	19-Mar	S12	0.53	117.48	99.6	19.8	6.4	9.2	78	0.4	0.2	5.9	90	59	94	2,829	85	117
322	21-Mar	S12	67.56	88.76	56.8	184.4	122.2	11.3	127	0.5	0.3	7.8	76	74	124	11,178	10	80
323	22-Mar	S12	60.45	127.00	67.8	188.2	109.8	29.6	233	0.3	0.1	9.3	92	89	149	11,467	12	120
324	23-Mar	S12	90.66	81.18	47.2	216.2	153.9	17.6	216	0.5	0.4	8.5	83	81	136	15,104	8	77
325	24-Mar	S12	64.68	113.47	63.7	110.6	87.6	25.8	227	0.6	0.4	8.9	85	84	141	10,144	13	108
326	25-Mar	S12	24.54	163.96	87.0	33.3	22.7	13.0	79	0.6	0.3	9.4	90	89	149	4,444	87	154
327	26-Mar	S12	4.40	87.67	95.2	8.5	5.3	10.4	119	0.3	0.4	4.6	87	46	73	2,153	88	84
328	28-Mar	S12	58.46	120.50	67.3	64.4	57.5	16.7	137	0.7	0.3	8.9	85	85	142	6,210	29	108
329	30-Mar	S1234	34.33	99.71	74.4	23.8	30.2	18.5	146	1.0	0.3	3.3	67	32	106	4,289	34	23
330	31-Mar	S12	49.67	126.71	71.8	59.7	56.2	7.9	62	0.6	0.4	8.8	83	83	140	6,926	24	109
331	01-Apr	S12	38.35	141.88	78.7	72.9	58.3	8.3	58	0.2	0.2	9.0	89	85	143	7,397	23	118
332	02-Apr	S12	27.69	114.13	80.5	64.2	40.6	11.2	99	0.2	0.3	7.0	92	67	112	5,502	24	103
333	05-Apr	S12	20.66	170.92	89.2	72.6	40.9	12.3	72	0.1	0.2	9.5	92	91	152	6,207	35	158
334	06-Apr	S12	134.45	41.08	23.4	319.0	226.0	5.9	144	0.3	0.3	8.7	86	83	139	16,552	7	35

JA SOIL CLEANUP PLANT LOG OVERALL SUMMARY REPORT---COMBINED SORTERS

DAY	DATE	SORTERS	HOT (ton)	CLEAN (ton)	WR (%)	AP (MBq)	AH (MBq)	AC (MBq)	SA (Bq/kg)	UP (hr)	DN (hr)	RUN (hr)	USE (%)	PRD (%)	VOL (cy)	REC (#)	SORT (sec)	WS3 (ton)
335	07-Apr	S12	161.36	17.13	9.6	319.9	282.3	(0.0)	(6)	0.1	0.3	8.9	89	84	141	18,486	6	6
336	08-Apr	S12	80.74	100.85	55.5	128.9	95.6	22.0	218	0.4	0.3	9.0	87	86	144	11,812	11	102
337	09-Apr	S12	58.08	71.19	55.1	118.1	80.1	16.0	224	0.2	0.2	6.4	91	64	102	10,128	8	73
338	11-Apr	S12	83.54	50.22	37.5	137.6	97.6	10.4	210	0.3	0.1	6.6	71	66	106	10,217	8	48
339	12-Apr	S12	81.73	15.88	16.3	97.7	81.3	3.8	227	0.2	0.4	4.9	77	48	77	7,846	8	15
340	13-Apr	S12	14.35	141.90	90.8	25.6	18.7	24.5	173	0.7	0.2	7.8	76	74	124	5,174	30	140
341	14-Apr	S12	37.45	10.45	21.8	85.5	53.0	3.1	273	0.3	0.2	2.4	79	24	38	4,525	7	11
342	15-Apr	S12	47.05	17.68	27.3	60.2	49.3	4.2	192	0.4	0.2	3.2	74	32	51	5,212	8	17
343	16-Apr	S12	117.87	31.67	21.2	208.7	151.2	4.6	126	0.3	0.2	7.4	88	71	119	10,885	9	23
344	18-Apr	S12	92.51	94.59	50.6	159.5	121.9	24.3	257	0.5	0.3	9.3	90	89	148	11,022	12	100
345	19-Apr	S12	166.89	16.08	8.8	434.2	291.5	0.7	(1)	0.3	0.3	9.1	89	87	145	19,778	6	8
346	20-Apr	S12	160.63	26.64	14.2	192.1	168.9	7.5	258	0.3	0.3	9.3	91	89	148	12,305	11	25
347	21-Apr	S12	76.82	111.57	59.2	122.4	86.8	31.8	282	0.3	0.2	9.4	93	89	149	10,182	14	102
348	22-Apr	S12	115.26	48.98	29.8	149.6	128.9	14.1	283	0.4	0.2	8.2	85	82	130	11,683	10	39
349	23-Apr	S12	51.56	39.67	43.5	103.0	70.0	10.2	254	0.4	0.3	4.5	62	45	72	5,984	11	35
350	25-Apr	S12	57.27	3.34	5.5	115.3	90.4	0.4	117	0.2	0.3	3.0	86	13	48	6,779	6	2
351	26-Apr	S12	80.90	91.00	52.9	143.0	114.1	6.5	72	0.2	0.3	8.5	88	85	136	10,860	12	80
352	27-Apr	S12	62.77	103.20	62.2	166.7	104.2	12.7	123	0.3	0.3	8.2	87	82	132	8,799	15	91
353	28-Apr	S12	42.10	126.94	75.1	76.9	54.1	14.4	113	0.2	0.3	8.4	87	84	134	6,386	25	118
354	29-Apr	S1234	124.38	206.29	62.4	270.1	188.4	32.8	186	0.3	0.3	8.2	84	82	262	16,910	41	41
355	30-Apr	S1234	69.05	185.05	72.8	140.7	96.6	32.0	186	0.3	0.3	6.3	81	63	201	11,007	27	60
TOTAL			2,562	7,592		5,472	3,767	884							8,049	436,481		5,296
DAY/WK AVG			45.75	136	69.8				138	0.5	0.3	7.6	85	73			108	
NUMB DAYS/WKS			56	56	56	56	56	56	56	56	56	56	56	56	56	56	56	56
TOTAL			2,562	7,592														
GRAND TOTAL				10,154														
HOT SOIL/WEED				2,562.01														
CLEAN SOIL/WEED				7,592.01	10154.													
WR%/WEEK				74.77%														

JA SOIL CLEANUP PLANT LOG OVERALL SUMMARY REPORT--COMBINED SORTERS

WS1 (ton)	WS2 (ton)	WS4 (ton)	WS5 (ton)	WS6 (ton)	WS7 (ton)	WS8 (ton)	OVR (ton)	H+C (ton)	H+C-WS2 (ton)	OVR (%)	AVL (hr)	WEEKLY H+C (ton)	WS2 (ton)	Date
259	187	181	0	0	0	55	72	178	(8)	28	9			07-Apr
276	214	97	0	0	0	54	62	182	(32)	22	10			08-Apr
175	151	71	0	0	0	58	24	129	(22)	14	7	856.47	928.47	09-Apr
189	166	109	0	0	0	36	23	134	(32)	12	7			11-Apr
145	123	105	0	0	0	0	22	98	(26)	15	5			12-Apr
180	167	19	0	0	0	0	13	156	(11)	7	9			13-Apr
71	61	48	0	0	0	37	11	48	(13)	15	3			14-Apr
93	59	62	0	0	0	0	33	65	5	36	4			15-Apr
216	160	134	0	0	0	0	56	150	(10)	26	8	649.80	735.95	16-Apr
237	235	106	0	0	0	0	2	187	(48)	1	10			18-Apr
260	197	185	0	0	0	0	64	183	(14)	24	10			19-Apr
285	210	185	0	0	0	0	75	187	(23)	26	10			20-Apr
232	186	79	0	0	0	0	46	188	2	20	10			21-Apr
217	168	127	0	0	0	0	48	164	(4)	22	9			22-Apr
114	94	56	0	0	0	0	20	91	(3)	18	5	1001.36	1090.26	23-Apr
93	68	64	0	0	0	36	25	61	(7)	27	4			25-Apr
243	175	91	0	0	0	69	68	172	(4)	28	9			26-Apr
231	166	69	0	0	0	34	65	166	(1)	28	9			27-Apr
248	173	48	0	0	0	16	75	169	(4)	30	9			28-Apr
178	181	138	150	147	0	126	-3	331	150	-1	9			29-Apr
165	136	74	112	107	0	77	29	254	118	17	7	1152.28	899.19	30-Apr
12,637	9,251	3,177	1,198	1,174	0	596	3,373	10,154	984		473	10,154	9,251	TOTAL
56	56	56	56	56	56	56	56	56	56	26	8.4	846	771	DAY/WK AVG
										56	56	12	12	NUMB DAYS/WKS

JA SOIL CLEANUP PLANT LOG OVERALL SUMMARY REPORT--COMBINED SORTERS

WS1 (ton)	WS2 (ton)	WS4 (ton)	WS5 (ton)	WS6 (ton)	WS7 (ton)	WS8 (ton)	OVR (ton)	H+C (ton)	H+C-WS2 (ton)	OVR (%)	AVL (hr)	WEEKLY H+C (ton)	WS2 (ton)	Date
297	201	3	160	161	0	0	96	385	184	32	10.2			07-Feb
283	197	2	155	156	0	0	86	387	190	31	10.3			08-Feb
290	199	2	160	160	0	0	91	394	195	31	10.8			09-Feb
308	212	3	156	158	0	0	96	394	182	31	10.5	1559.85	808.70	10-Feb
192	133	1	80	79	0	0	59	232	99	31	6.9			14-Feb
307	204	2	105	104	0	0	103	324	119	33	9.8			15-Feb
316	215	2	39	41	0	0	101	250	34	32	6.9			17-Feb
269	208	2	0	0	0	0	60	196	(13)	22	10.3			18-Feb
136	125	1	0	0	0	0	11	122	(4)	8	6.8	1122.05	885.79	19-Feb
236	169	19	0	0	0	0	66	166	(3)	28	9.3	166.06	169.17	26-Feb
290	206	3	0	0	0	0	84	193	(14)	29	10			28-Feb
299	217	3	0	0	0	0	81	192	(25)	27	10			01-Mar
290	206	4	0	0	0	0	84	195	(11)	29	10			02-Mar
287	195	4	0	0	0	0	92	189	(6)	32	10			03-Mar
279	202	5	0	0	0	0	77	181	(21)	28	10			04-Mar
80	58	1	0	0	0	0	22	52	(6)	28	4	1002.80	1085.07	05-Mar
219	150	35	0	0	0	0	70	131	(18)	32	7	131.20	149.50	11-Mar
274	161	289	0	0	0	0	114	142	(19)	41	8			15-Mar
238	165	8	0	0	0	0	80	145	(71)	27	9			16-Mar
296	216	4	0	0	0	0	68	192	47	32	10			17-Mar
213	145	3	0	0	0	0	51	129	6	29	10			18-Mar
175	124	1	0	0	0	0	70	118	(40)	31	7	726.58	809.91	19-Mar
228	158	75	0	0	0	0	77	156	(35)	29	9			21-Mar
268	191	66	0	0	0	0	67	187	5	27	10			22-Mar
249	182	104	0	0	0	0	77	172	(12)	30	9			23-Mar
261	184	72	0	0	0	0	104	178	(9)	36	10			24-Mar
292	188	27	0	0	0	0	52	188	95	36	10			25-Mar
145	93	5	0	0	0	0	52	92	(1)	36	5	974.32	995.45	26-Mar
257	172	59	0	0	0	0	84	179	7	33	10			28-Mar
61	43	19	83	60	0	0	17	134	91	29	5			30-Mar
238	169	54	0	0	0	0	69	176	7	29	10			31-Mar
238	168	43	0	0	0	0	69	180	12	29	9			01-Apr
196	140	31	0	0	0	0	56	142	2	29	8	811.42	693.29	02-Apr
263	186	24	0	0	0	0	76	192	5	29	10			05-Apr
261	190	153	0	0	0	0	80	176	(6)	31	9			06-Apr

Q-5

WORK HISTORY - JA SOIL CLEANUP PLANT

07-Feb-94

WORK DAY START	06:00 AM	WORK DAY END	16:30 PM
LUNCH START	11:00 AM	TIME LOST DURING LUNCH	0.0 HR

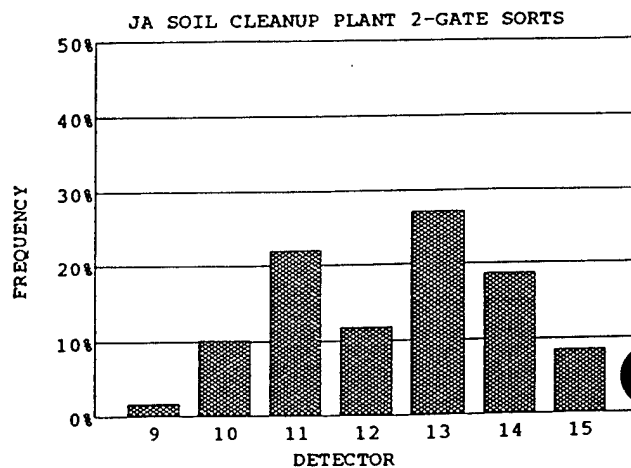
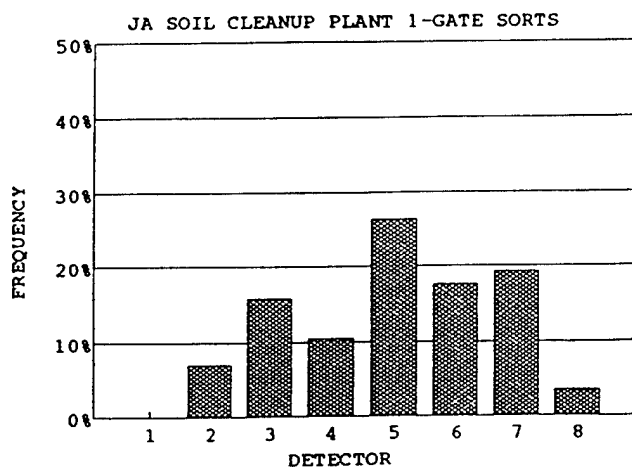
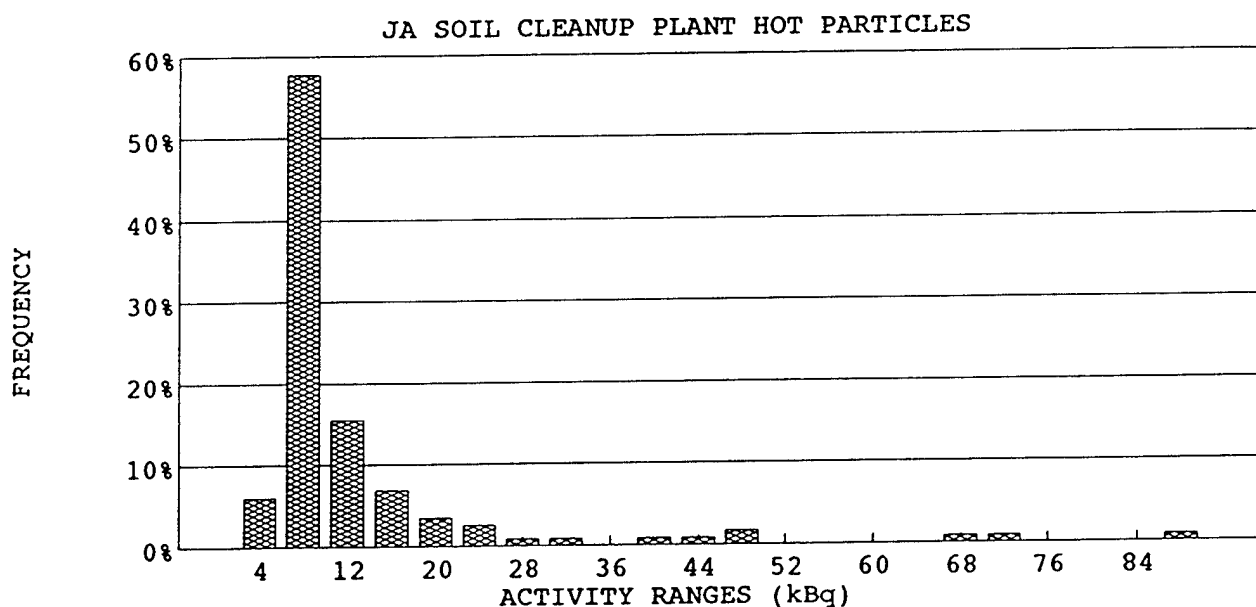
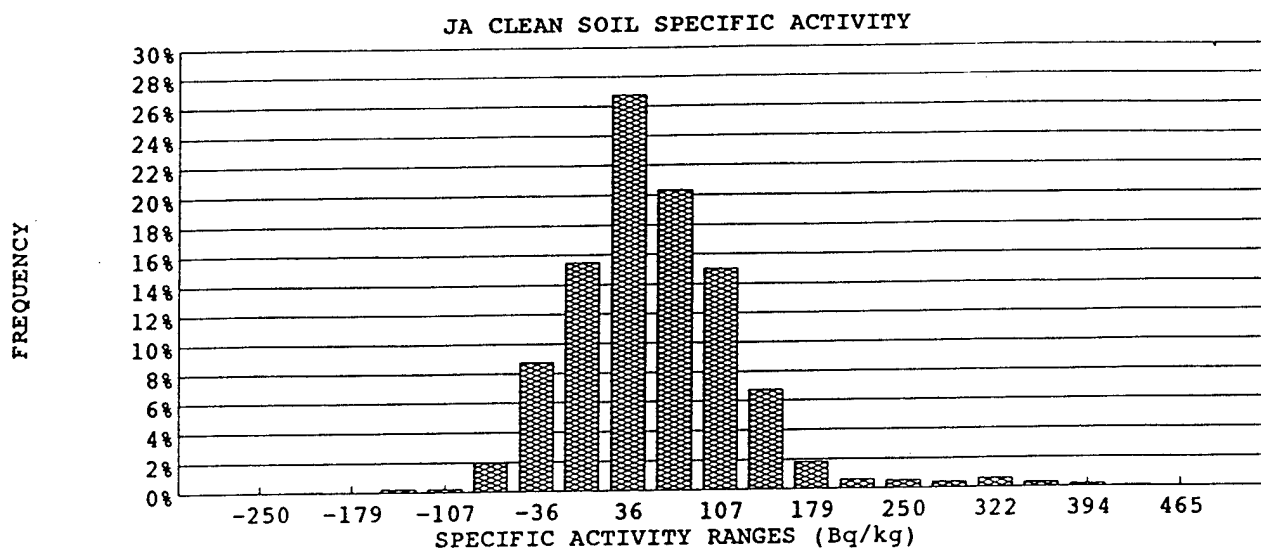
	SORTER 1	SORTER 2	SORTER 3	SORTER 4	TOTAL (sorter hours)
WORK HOURS	10.5 hr	10.5 hr	10.5 hr	10.5 hr	42.0 hr
SORTER AVAILABLE HOURS	10.3 hr	10.3 hr	10.3 hr	10.3 hr	41.0 hr
SORTER START-UP	06:00	06:00	06:00	06:00	
START SOIL PROCESSING	06:14	06:14	06:20	06:20	
TIME REQUIRED TO START-UP	0.2 hr	0.2 hr	0.3 hr	0.3 hr	1.2 hr
SORTER SHUT-DOWN	16:15	16:15	16:15	16:15	
END SOIL PROCESSING	15:48	15:49	16:01	15:58	
TIME REQUIRED TO SHUT DOWN	0.4 hr	0.4 hr	0.2 hr	0.3 hr	1.4 hr
ACTUAL PROCESS HOURS	9.5 hr	9.6 hr	9.7 hr	9.5 hr	38.3 hr
DOWN-TIME	0.8 hr	0.7 hr	0.6 hr	0.7 hr	2.7 hr
SYSTEM PAUSE	0.1 hr	0.0 hr	0.0 hr	0.1 hr	0.2 hr
SORTER NONAVAILABLE TIME	0.2 hr	0.2 hr	0.2 hr	0.2 hr	1.0 hr
AUTHORIZED DELAY TIME	0.0 hr	0.0 hr	0.0 hr	0.0 hr	0.0 hr
PLANT PERFORMANCE					93.4%
PRODUCTIVITY					91.2%

PRODUCTIVITY

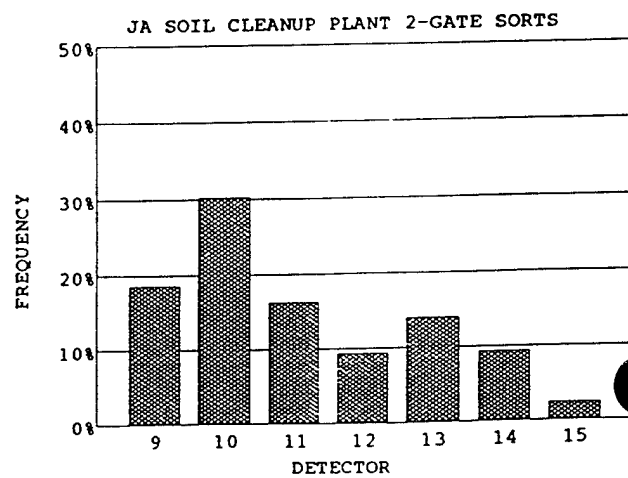
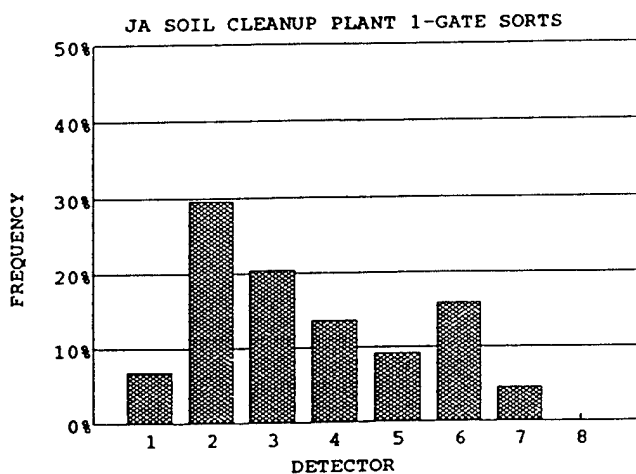
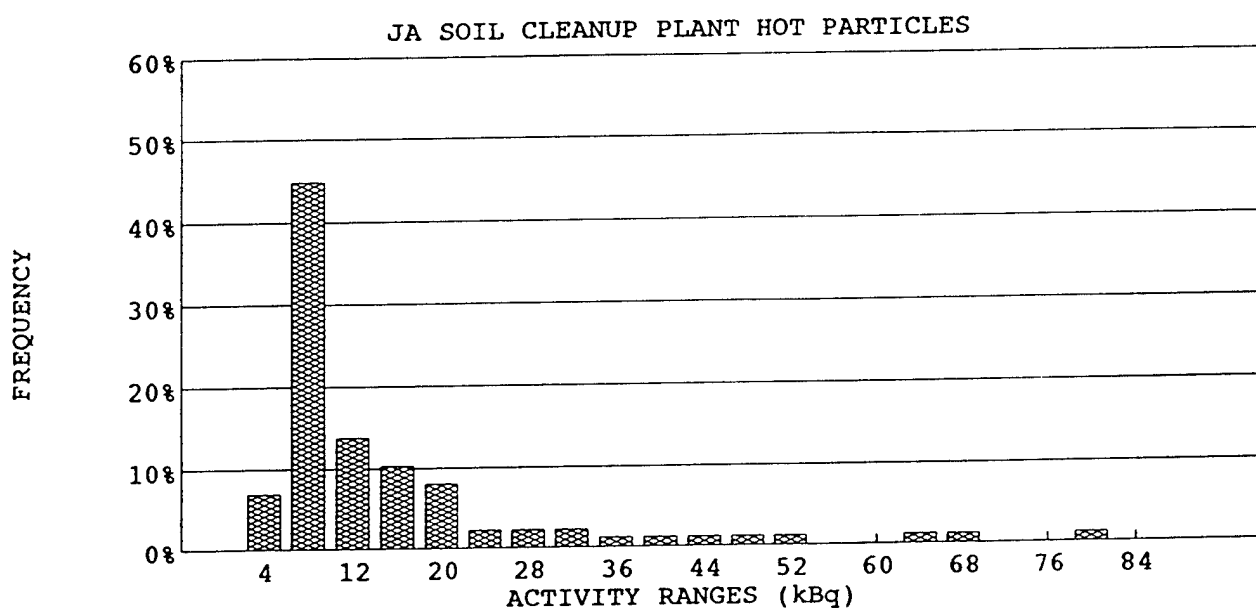
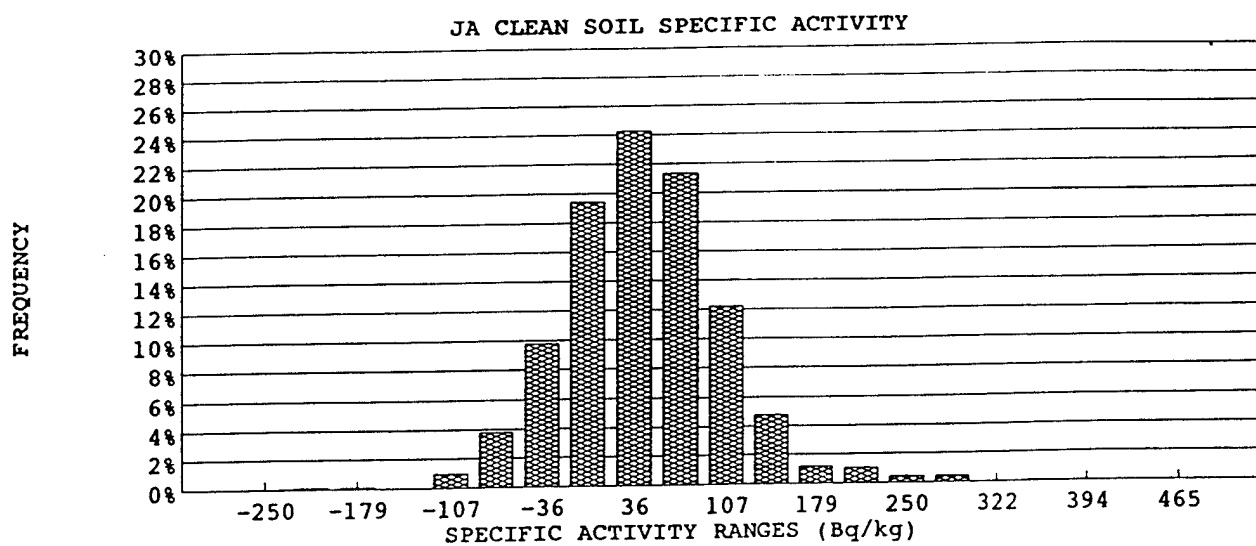
Date	07-Feb-94	Excused Delays for day (sorter-hrs)	0 hr
Contract day (from 6 Sep)	121	Excused delays for contract (sorter-hrs)	1,601 hr
Current Contract week	21	Excused delay days (plant-days)	40 days
		Excused delay months (plant-month)	1.54 months
Soil production for Day	385 MT		
Cumulative Soil Production for Week	385 MT	Percent of contract completed	32.5%
Total Soil production for contract		Tons Ahead or Behind Schedule	1,426 MT
Since 6 Sep 93	30,871 MT	Days ahead or behind schedule	5 days
Since 6 Aug 93	32,462 MT		
Total Soil production for project	58,748 MT		

MT = metric tons

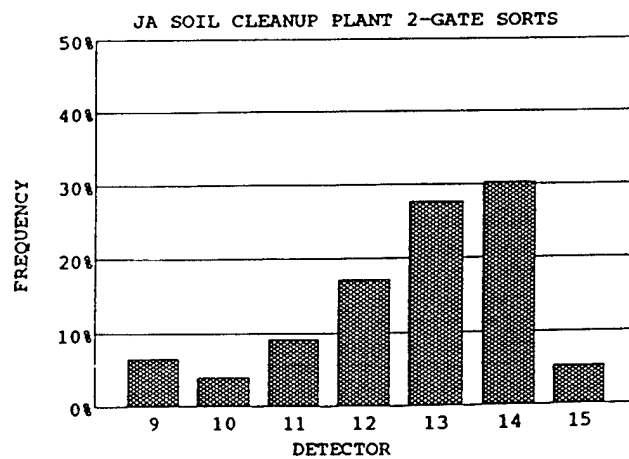
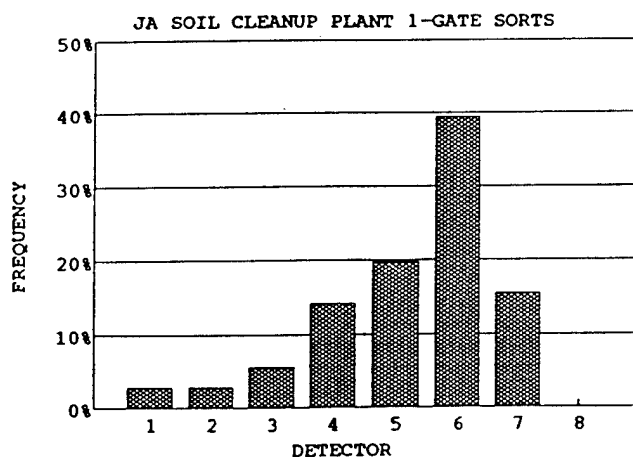
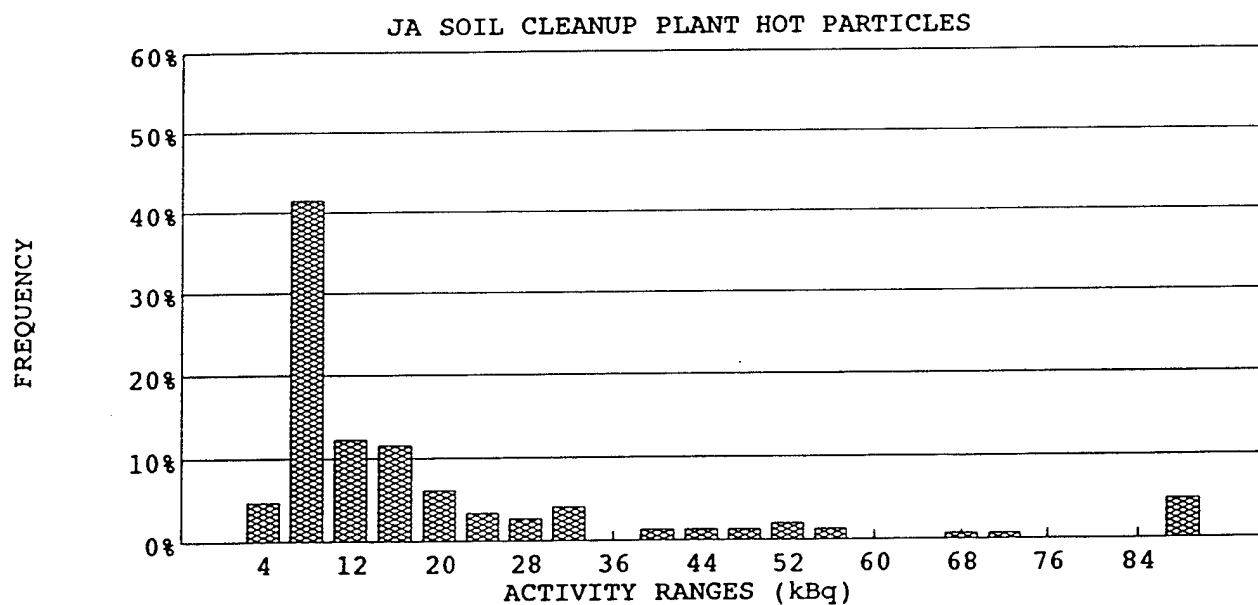
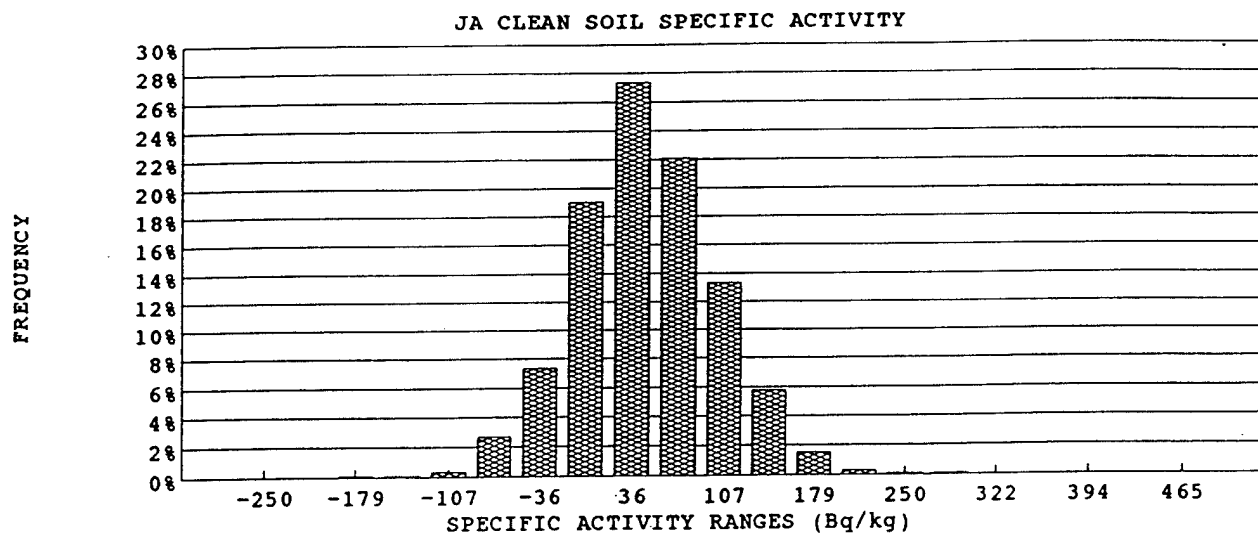
SORTER 1				07-Feb-94					
SORTER SOIL DENSITY		1.20 tons/m ³		BACKGROUND		0.67 ± 0.02 c/s			
SOIL		CONTAMINATED		CLEAN		TOTAL			
MASS TOTAL		0.8 tons		94.7 tons		95.4 tons			
MAXIMUM/SORT		58.1 kg		55.9 kg					
MINIMUM/SORT		0.7 kg		47.5 kg					
VOLUME IN-GROUND		0.6 yd ³		75.0 yd ³		75.6 yd ³			
WEIGHT RECOVERY (CLEAN/(HOT+CLEAN))		99.2%							
ACTIVITY		PARTICLE		DISPERSED + PARTICLE					
				HOT		CLEAN			
TOTAL		1,288 kBq		1,040 kBq		3,634 kBq			
MAXIMUM/SORT		121 kBq		67 kBq		22 kBq			
MINIMUM/SORT		3 kBq		0 Bq		-14 kBq			
SPECIFIC ACTIVITY				1,351 Bq/kg		38 Bq/kg			
SORTS									
20-SEC PROCESS PERIODS				1,707		UNEXP PAUSE			
ALL 80 ELEMENTS SORT (MD>0&MND=0)				11		TIME TIME			
NONE (AD=0 & MD=0 & MND>0)				1,567		None 08:43			
SOME (AD>0&0<MD<MNDmax&MND<MNDmax)				129					
UNEXPLAINED RECORDS				0					
0<AD<1kBq & MD>0				0					
AD=0 & MD>0				0					
AD<0 & MD >0				0					
2-SEC COUNT PERIODS				17,070					
2-SEC RECORDS WITH SORTS				116					
2-SEC RECORDS WITHOUT SORTS				16,954					
TOTAL PROCESS RECORDS (2-s SORTS and 20-s PERIODS)				1,823					
NONPROCESSING RECORDS (Test, calibration, etc)				4					
2-SEC SORT DETECTORS									
1 DET		87	75.0%	5 DET		0	0.0%		
2 DET		27	23.3%	6 DET		0	0.0%		
3 DET		2	1.7%	7 DET		0	0.0%		
4 DET		0	0.0%	8 DET		0	0.0%		
AVERAGE TIME BETWEEN 2-SEC SORTS				392.4 sec					
FREQUENCY DISTRIBUTIONS									
1-GATE SORTS		ACT_ND	NUM	SPEC_A	FREQ%	ACT_P	NUM	FREQ%	
DET	SORTS	(Bq)	(#)	(Bq/kg)		(kBq)	(#)		
1	0	0.0%	-14000	0	-250	0.0%	4	7	6.0%
2	4	7.0%	-12000	1	-215	0.1%	8	67	57.8%
3	9	15.8%	-10000	0	-179	0.0%	12	18	15.5%
4	6	10.5%	-8000	4	-143	0.2%	16	8	6.9%
5	15	26.3%	-6000	4	-107	0.2%	20	4	3.4%
6	10	17.5%	-4000	33	-72	1.9%	24	3	2.6%
7	11	19.3%	-2000	150	-36	8.8%	28	1	0.9%
8	2	3.5%	0	265	0	15.5%	32	1	0.9%
TOTAL	57		2000	458	36	26.8%	36	0	0.0%
			4000	348	72	20.3%	40	1	0.9%
			6000	257	107	15.0%	44	1	0.9%
2-GATE SORTS			8000	115	143	6.7%	48	2	1.7%
DET	SORTS	FREQ%							
9	1	1.7%	10000	31	179	1.8%	52	0	0.0%
10	6	10.2%	12000	10	215	0.6%	56	0	0.0%
11	13	22.0%	14000	9	250	0.5%	60	0	0.0%
12	7	11.9%	16000	7	286	0.4%	64	0	0.0%
13	16	27.1%	18000	10	322	0.6%	68	1	0.9%
14	11	18.6%	20000	5	358	0.3%	72	1	0.9%
15	5	8.5%	22000	3	394	0.2%	76	0	0.0%
TOTAL	59		24000	1	429	0.1%	80	0	0.0%
			26000	0	465	0.0%	84	0	0.0%
			>28000	0	0	0.0%	>84	1	0.9%
			TOTAL	1,711			TOTAL	116	
EVENT TYPES		HPE	119	MPE	182	DISE	800		



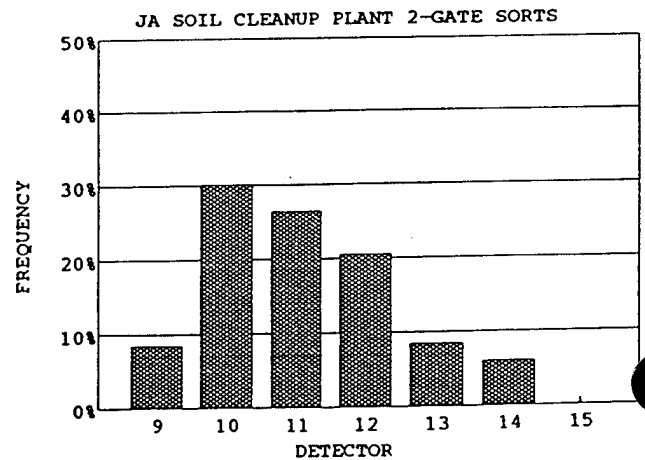
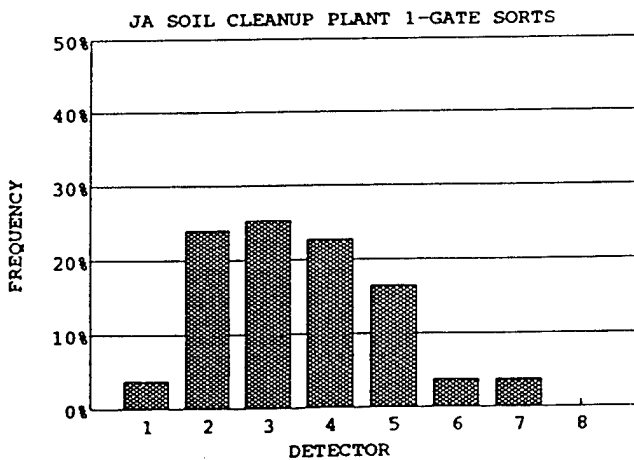
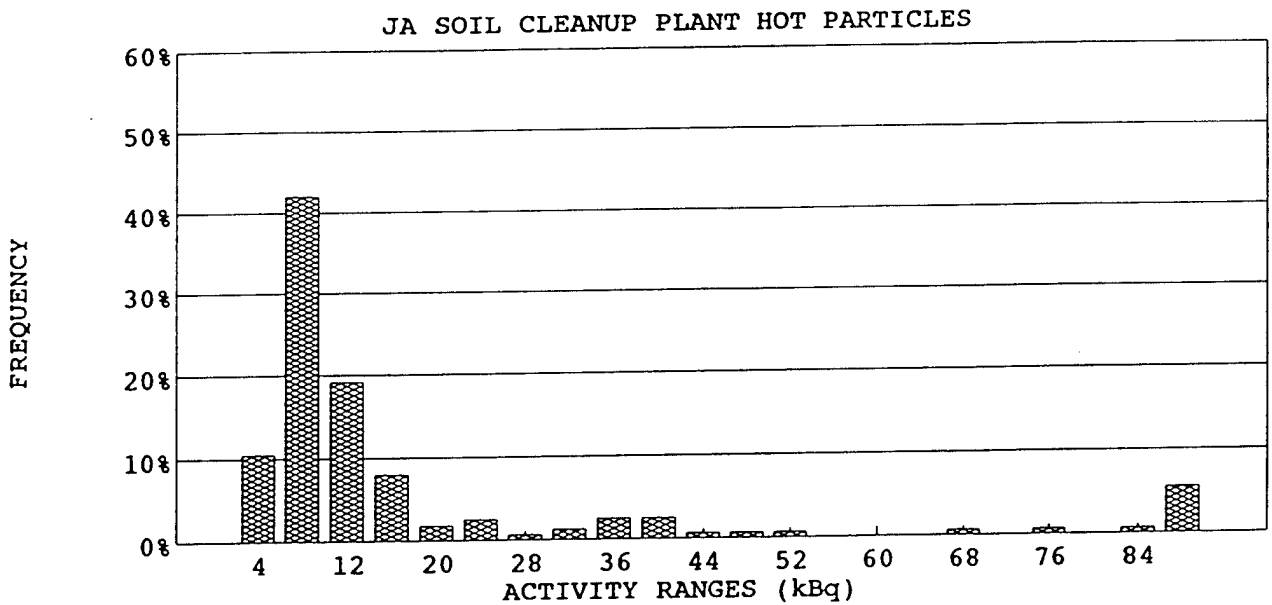
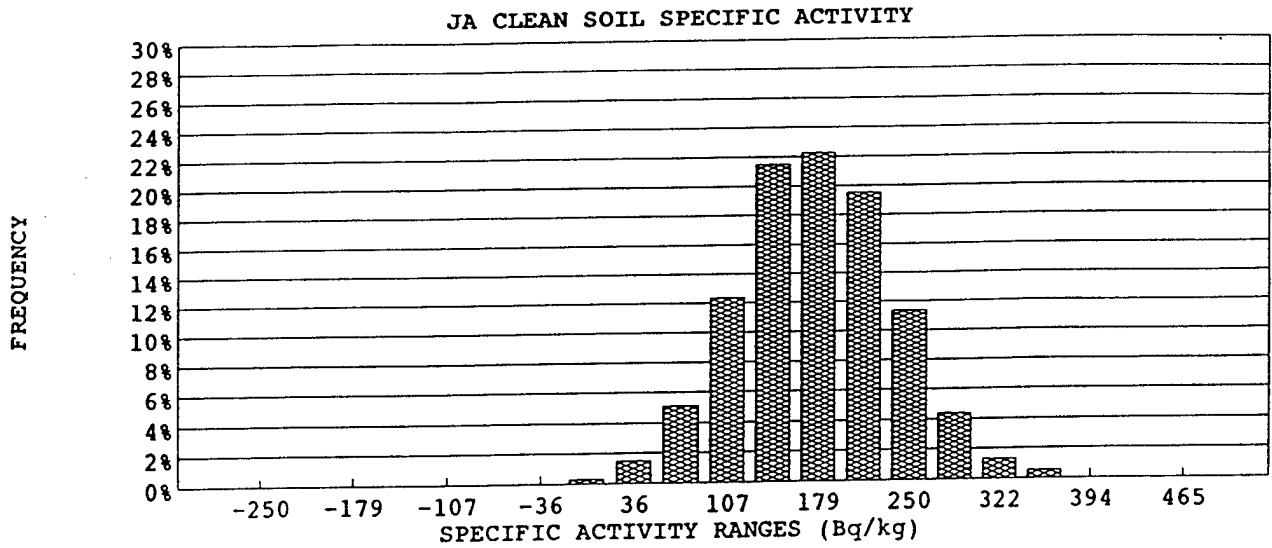
SORTER 2				07-Feb-94						
SORTER SOIL DENSITY		1.20 tons/m ³		BACKGROUND		0.79 ± 0.02 c/s				
SOIL		CONTAMINATED		CLEAN		TOTAL				
MASS TOTAL		1.2 tons		95.2 tons		96.4 tons				
MAXIMUM/SORT		55.9 kg		55.9 kg						
MINIMUM/SORT		0.7 kg		49.6 kg						
VOLUME IN-GROUND		1.0 yd ³		75.5 yd ³		76.4 yd ³				
WEIGHT RECOVERY (CLEAN/(HOT+CLEAN))		98.7%								
ACTIVITY		PARTICLE		DISPERSED + PARTICLE						
		HOT		CLEAN						
TOTAL		1,184 kBq		1,861 kBq		2,501 kBq				
MAXIMUM/SORT		76 kBq		73 kBq		18 kBq				
MINIMUM/SORT		2 kBq		0 Bq		-13 kBq				
SPECIFIC ACTIVITY				1,520 Bq/kg		26 Bq/kg				
SORTS										
20-SEC PROCESS PERIODS				1,725		UNEXP PAUSE				
ALL 80 ELEMENTS SORT (MD>0&MND=0)				12		TIME TIME				
NONE (AD=0 & MD=0 & MND>0)				1,138		None None				
SOME (AD>0&0<MD<MNDmax&MND<MNDmax)				575						
UNEXPLAINED RECORDS				0						
0<AD<1kBq & MD>0				0						
AD=0 & MD>0				0						
AD<0 & MD >0				0						
2-SEC COUNT PERIODS				17,250						
2-SEC RECORDS WITH SORTS				87						
2-SEC RECORDS WITHOUT SORTS				17,163						
TOTAL PROCESS RECORDS (2-s SORTS and 20-s PERIODS)				1,812						
NONPROCESSING RECORDS (Test, calibration, etc)				3						
2-SEC SORT DETECTORS										
1 DET		69	79.3%	5 DET	0	0.0%				
2 DET		16	18.4%	6 DET	0	0.0%				
3 DET		2	2.3%	7 DET	0	0.0%				
4 DET		0	0.0%	8 DET	0	0.0%				
AVERAGE TIME BETWEEN 2-SEC SORTS				500.0 sec						
FREQUENCY DISTRIBUTIONS										
1-GATE SORTS			ACT_ND	NUM	SPEC_A	FREQ%	ACT_P	NUM	FREQ%	
DET	SORTS	FREQ%	(Bq)	(#)	(Bq/kg)		(kBq)	(#)		
1	3	6.8%	-14000	0	-250	0.0%	4	6	6.9%	
2	13	29.5%	-12000	2	-215	0.1%	8	39	44.8%	
3	9	20.5%	-10000	2	-179	0.1%	12	12	13.8%	
4	6	13.6%	-8000	0	-143	0.0%	16	9	10.3%	
5	4	9.1%	-6000	17	-107	1.0%	20	7	8.0%	
6	7	15.9%	-4000	65	-72	3.8%	24	2	2.3%	
7	2	4.5%	-2000	169	-36	9.8%	28	2	2.3%	
8	0	0.0%	0	336	0	19.4%	32	2	2.3%	
TOTAL			44	2000	419	36	24.2%	36	1	1.1%
				4000	369	72	21.4%	40	1	1.1%
2-GATE SORTS				6000	211	107	12.2%	44	1	1.1%
DET	SORTS	FREQ%		8000	82	143	4.7%	48	1	1.1%
9	8	18.6%		10000	21	179	1.2%	52	1	1.1%
10	13	30.2%		12000	18	215	1.0%	56	0	0.0%
11	7	16.3%		14000	8	250	0.5%	60	0	0.0%
12	4	9.3%		16000	8	286	0.5%	64	1	1.1%
13	6	14.0%		18000	0	322	0.0%	68	1	1.1%
14	4	9.3%		20000	1	358	0.1%	72	0	0.0%
15	1	2.3%		22000	0	394	0.0%	76	0	0.0%
TOTAL			43	24000	0	429	0.0%	80	1	1.1%
				26000	0	465	0.0%	84	0	0.0%
				>28000	0	0	0.0%	>84	0	0.0%
				TOTAL	1,728			TOTAL	87	
EVENT TYPES		HPE	96	MPE	880	DISE	775			



SORTER 3				07-Feb-94					
SORTER SOIL DENSITY		1.20 tons/m ³		BACKGROUND		0.62 ± 0.02 c/s			
SOIL		CONTAMINATED		CLEAN		TOTAL			
MASS TOTAL		0.3 tons		97.3 tons		97.5 tons			
MAXIMUM/SORT		3.5 kg		55.9 kg					
MINIMUM/SORT		0.7 kg		52.4 kg					
VOLUME IN-GROUND		0.2 yd ³		77.1 yd ³		77.3 yd ³			
WEIGHT RECOVERY (CLEAN/(HOT+CLEAN))		99.7%							
ACTIVITY		PARTICLE		DISPERSED + PARTICLE					
				HOT		CLEAN			
TOTAL		2,882 kBq		1,379 kBq		2,809 kBq			
MAXIMUM/SORT		230 kBq		180 kBq		15 kBq			
MINIMUM/SORT		3 kBq		0 Bq		-8 kBq			
SPECIFIC ACTIVITY				5,050 Bq/kg		29 Bq/kg			
SORTS									
20-SEC PROCESS PERIODS				1,745		UNEXP PAUSE			
ALL 80 ELEMENTS SORT (MD>0&MND=0)				0		TIME TIME			
NONE (AD=0 & MD=0 & MND>0)				1,469		None None			
SOME (AD>0&0<MD<MNDmax&MND<MNDmax)				276					
UNEXPLAINED RECORDS				0					
0<AD<1kBq & MD>0				0					
AD=0 & MD>0				0					
AD<0 & MD >0				0					
2-SEC COUNT PERIODS				17,450					
2-SEC RECORDS WITH SORTS				147					
2-SEC RECORDS WITHOUT SORTS				17,303					
TOTAL PROCESS RECORDS (2-s SORTS and 20-s PERIODS)				1,892					
NONPROCESSING RECORDS (Test, calibration, etc)				3					
2-SEC SORT DETECTORS									
1 DET		109	74.1%	5 DET	0	0.0%			
2 DET		35	23.8%	6 DET	0	0.0%			
3 DET		3	2.0%	7 DET	0	0.0%			
4 DET		0	0.0%	8 DET	0	0.0%			
AVERAGE TIME BETWEEN 2-SEC SORTS				320.2 sec					
FREQUENCY DISTRIBUTIONS									
1-GATESORTS			ACT_ND	NUM	SPEC_A	FREQ%	ACT_P	NUM	FREQ%
DET	SORTS	FREQ%	(Bq)	(#)	(Bq/kg)		(kBq)	(#)	
1	2	2.8%	-14000	0	-250	0.0%	4	7	4.8%
2	2	2.8%	-12000	0	-215	0.0%	8	61	41.5%
3	4	5.6%	-10000	1	-179	0.1%	12	18	12.2%
4	10	14.1%	-8000	1	-143	0.1%	16	17	11.6%
5	14	19.7%	-6000	6	-107	0.3%	20	9	6.1%
6	28	39.4%	-4000	47	-72	2.7%	24	5	3.4%
7	11	15.5%	-2000	129	-36	7.4%	28	4	2.7%
8	0	0.0%	0	332	0	19.0%	32	6	4.1%
TOTAL	71		2000	478	36	27.3%	36	0	0.0%
			4000	386	72	22.1%	40	2	1.4%
2-GATESORTS			6000	233	107	13.3%	44	2	1.4%
DET	SORTS	FREQ%	8000	101	143	5.8%	48	2	1.4%
9	5	6.6%	10000	27	179	1.5%	52	3	2.0%
10	3	3.9%	12000	5	215	0.3%	56	2	1.4%
11	7	9.2%	14000	1	250	0.1%	60	0	0.0%
12	13	17.1%	16000	1	286	0.1%	64	0	0.0%
13	21	27.6%	18000	0	322	0.0%	68	1	0.7%
14	23	30.3%	20000	0	358	0.0%	72	1	0.7%
15	4	5.3%	22000	0	394	0.0%	76	0	0.0%
TOTAL	76		24000	0	429	0.0%	80	0	0.0%
			26000	0	465	0.0%	84	0	0.0%
			>28000	0	0	0.0%	>84	7	4.8%
			TOTAL	1,748			TOTAL	147	
EVENT TYPES		HPE	153	MPE	237	DISE	0		



SORTER 4				07-Feb-94					
SORTER SOIL DENSITY		1.20 tons/m ³		BACKGROUND		0.59 ± 0.02 c/s			
SOIL		CONTAMINATED		CLEAN		TOTAL			
MASS TOTAL		0.6 tons		95.4 tons		96.0 tons			
MAXIMUM/SORT		58.7 kg		55.9 kg					
MINIMUM/SORT		0.7 kg		50.3 kg					
VOLUME IN-GROUND		0.5 yd ³		75.6 yd ³		76.1 yd ³			
WEIGHT RECOVERY (CLEAN/(HOT+CLEAN))		99.4%							
ACTIVITY		PARTICLE		DISPERSED + PARTICLE					
				HOT		CLEAN			
TOTAL		3,241 kBq		2,039 kBq		15,270 kBq			
MAXIMUM/SORT		317 kBq		270 kBq		19 kBq			
MINIMUM/SORT		3 kBq		0 Bq		-1 kBq			
SPECIFIC ACTIVITY				3,350 Bq/kg		160 Bq/kg			
SORTS									
20-SEC PROCESS PERIODS				1,717		UNEXP PAUSE			
ALL 80 ELEMENTS SORT (MD>0&MND=0)				2		TIME TIME			
NONE (AD=0 & MD=0 & MND>0)				1,211		None 06:26			
SOME (AD>0&0<MD<MNDmax&MND<MNDmax)				504		07:36			
UNEXPLAINED RECORDS				0					
0<AD<1kBq & MD>0				0					
AD=0 & MD>0				0					
AD<0 & MD >0				0					
2-SEC COUNT PERIODS				17,170					
2-SEC RECORDS WITH SORTS				162					
2-SEC RECORDS WITHOUT SORTS				17,008					
TOTAL PROCESS RECORDS (2-s SORTS and 20-s PERIODS)				1,879					
NONPROCESSING RECORDS (Test, calibration, etc)				0					
2-SEC SORT DETECTORS									
1 DET		109	67.3%	5 DET		2	1.2%		
2 DET		37	22.8%	6 DET		0	0.0%		
3 DET		10	6.2%	7 DET		0	0.0%		
4 DET		4	2.5%	8 DET		0	0.0%		
AVERAGE TIME BETWEEN 2-SEC SORTS				315.0 sec					
FREQUENCY DISTRIBUTIONS									
1-GATE SORTS		ACT_ND	NUM	SPEC_A	FREQ%	ACT_P	NUM	FREQ%	
DET	SORTS	(Bq)	(#)	(Bq/kg)		(kBq)	(#)		
1	3	3.8%	-14000	0	-250	0.0%	4	17	10.5%
2	19	24.1%	-12000	0	-215	0.0%	8	68	42.0%
3	20	25.3%	-10000	0	-179	0.0%	12	31	19.1%
4	18	22.8%	-8000	0	-143	0.0%	16	13	8.0%
5	13	16.5%	-6000	0	-107	0.0%	20	3	1.9%
6	3	3.8%	-4000	0	-72	0.0%	24	4	2.5%
7	3	3.8%	-2000	0	-36	0.0%	28	1	0.6%
8	0	0.0%	0	5	0	0.3%	32	2	1.2%
TOTAL	79		2000	25	36	1.5%	36	4	2.5%
			4000	88	72	5.1%	40	4	2.5%
2-GATE SORTS			6000	212	107	12.3%	44	1	0.6%
DET	SORTS	FREQ%	8000	369	143	21.5%	48	1	0.6%
9	7	8.4%	10000	382	179	22.2%	52	1	0.6%
10	25	30.1%	12000	335	215	19.5%	56	0	0.0%
11	22	26.5%	14000	195	250	11.4%	60	0	0.0%
12	17	20.5%	16000	75	286	4.4%	64	0	0.0%
13	7	8.4%	18000	22	322	1.3%	68	1	0.6%
14	5	6.0%	20000	9	358	0.5%	72	0	0.0%
15	0	0.0%	22000	0	394	0.0%	76	1	0.6%
TOTAL	83		24000	0	429	0.0%	80	0	0.0%
			26000	0	465	0.0%	84	1	0.6%
			>28000	0	0	0.0%	>84	9	5.6%
			TOTAL	1,717			TOTAL	162	
EVENT TYPES		HPE	161	MPE	545	DISE	163		



WORK HISTORY - JA SOIL CLEANUP PLANT

08-Feb-94

WORK DAY START	06:00 AM	WORK DAY END	16:30 PM
LUNCH START	11:00 AM	TIME LOST DURING LUNCH	0.0 HR

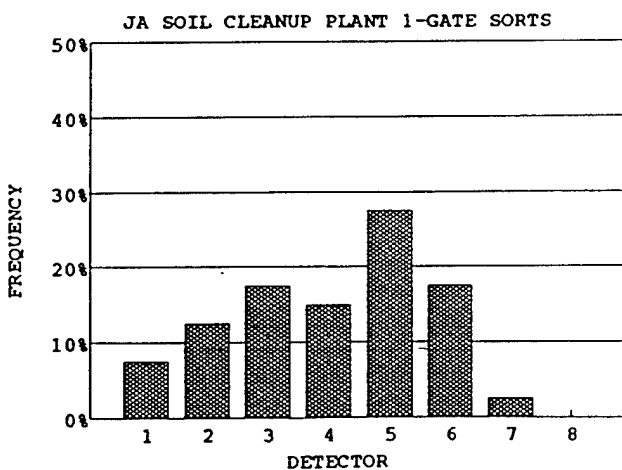
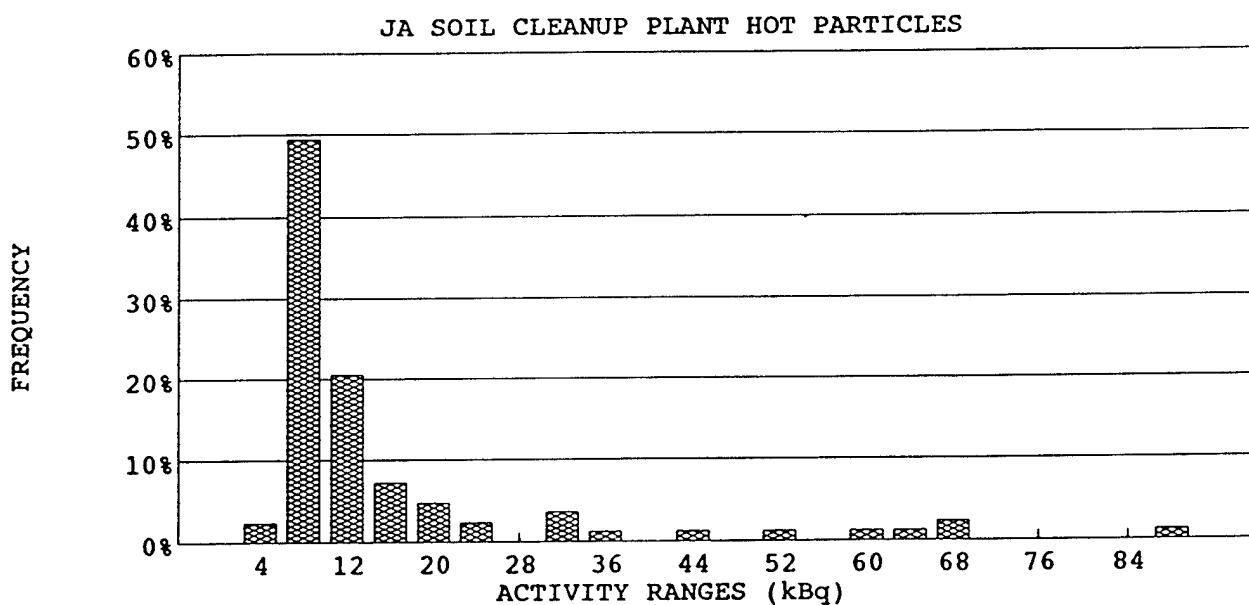
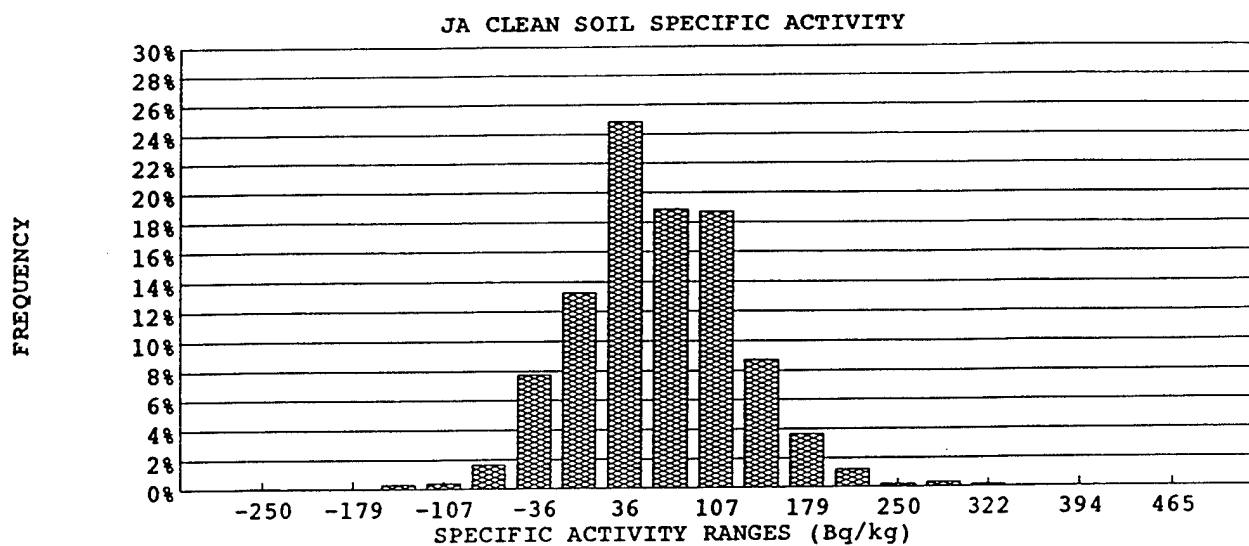
	SORTER 1	SORTER 2	SORTER 3	SORTER 4	TOTAL (sorter hours)
WORK HOURS	10.5 hr	10.5 hr	10.5 hr	10.5 hr	42.0 hr
SORTER AVAILABLE HOURS	10.3 hr	10.3 hr	10.3 hr	10.3 hr	41.3 hr
SORTER START-UP	06:00	06:00	06:00	06:00	
START SOIL PROCESSING	06:17	06:17	06:17	06:17	
TIME REQUIRED TO START-UP	0.3 hr	0.3 hr	0.3 hr	0.3 hr	1.2 hr
SORTER SHUT-DOWN	16:20	16:20	16:20	16:20	
END SOIL PROCESSING	15:49	15:48	16:03	16:04	
TIME REQUIRED TO SHUT DOWN	0.5 hr	0.5 hr	0.3 hr	0.3 hr	1.6 hr
ACTUAL PROCESS HOURS	9.5 hr	9.5 hr	9.8 hr	9.7 hr	38.4 hr
DOWN-TIME	0.8 hr	0.9 hr	0.6 hr	0.7 hr	2.9 hr
SYSTEM PAUSE	0.0 hr	0.1 hr	0.0 hr	0.1 hr	0.2 hr
SORTER NONAVAILABLE TIME	0.2 hr	0.2 hr	0.2 hr	0.2 hr	0.7 hr
AUTHORIZED DELAY TIME	0.0 hr	0.0 hr	0.0 hr	0.0 hr	0.0 hr
PLANT PERFORMANCE					92.9%
PRODUCTIVITY					91.5%

PRODUCTIVITY

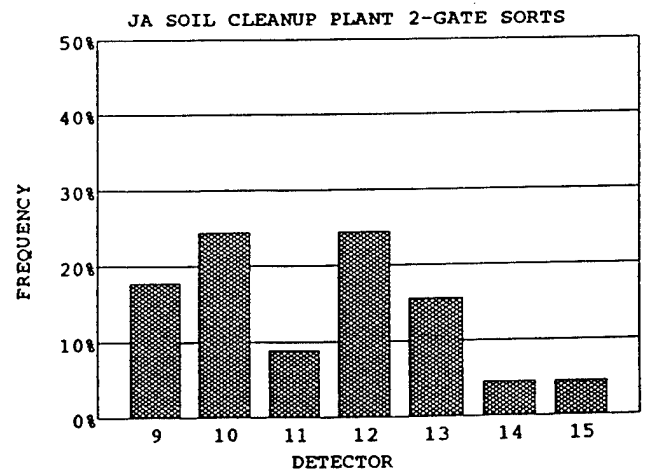
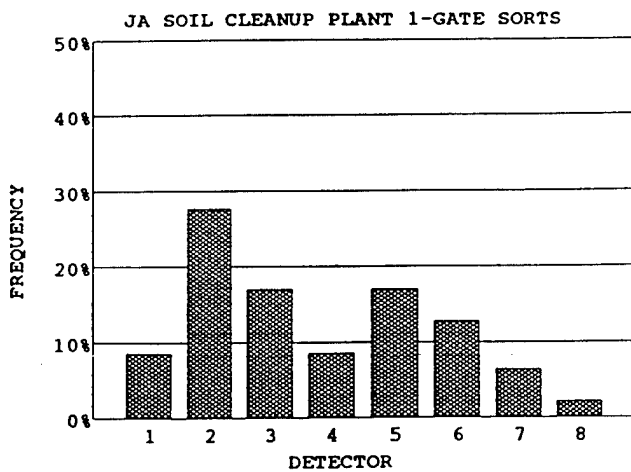
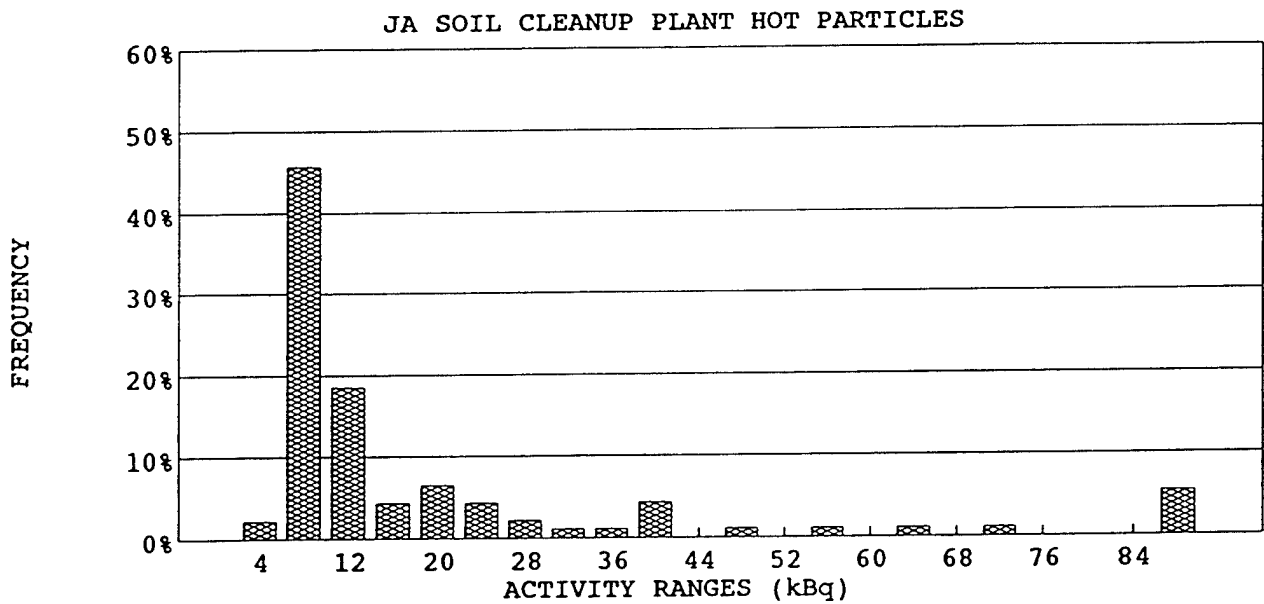
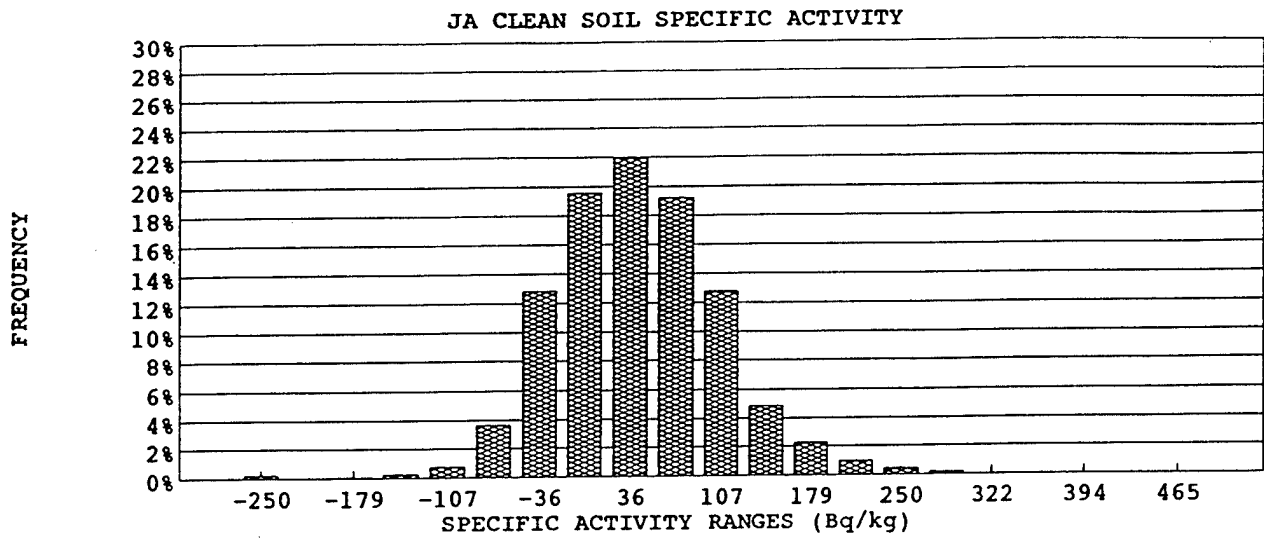
Date	08-Feb-94	Excused Delays for day (sorter-hrs)	0 hr
Contract day (from 6 Sep)	122	Excused delays for contract (sorter-hrs)	1,601 hr
Current Contract week	21	Excused delay days (plant-days)	40 days
		Excused delay months (plant-month)	1.54 months
Soil production for Day	387 MT		
Cumulative Soil Production for Week	772 MT	Percent of contract completed	32.8%
Total Soil production for contract		Tons Ahead or Behind Schedule	1,496 MT
Since 6 Sep 93	31,257 MT	Days ahead or behind schedule	5 days
Since 6 Aug 93	32,848 MT		
Total Soil production for project	59,135 MT		

MT = metric tons

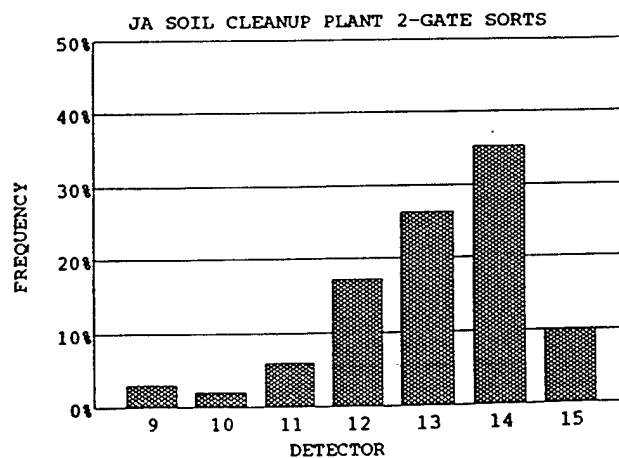
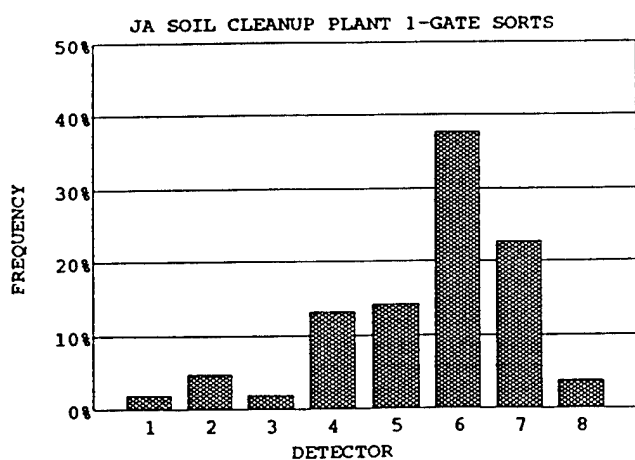
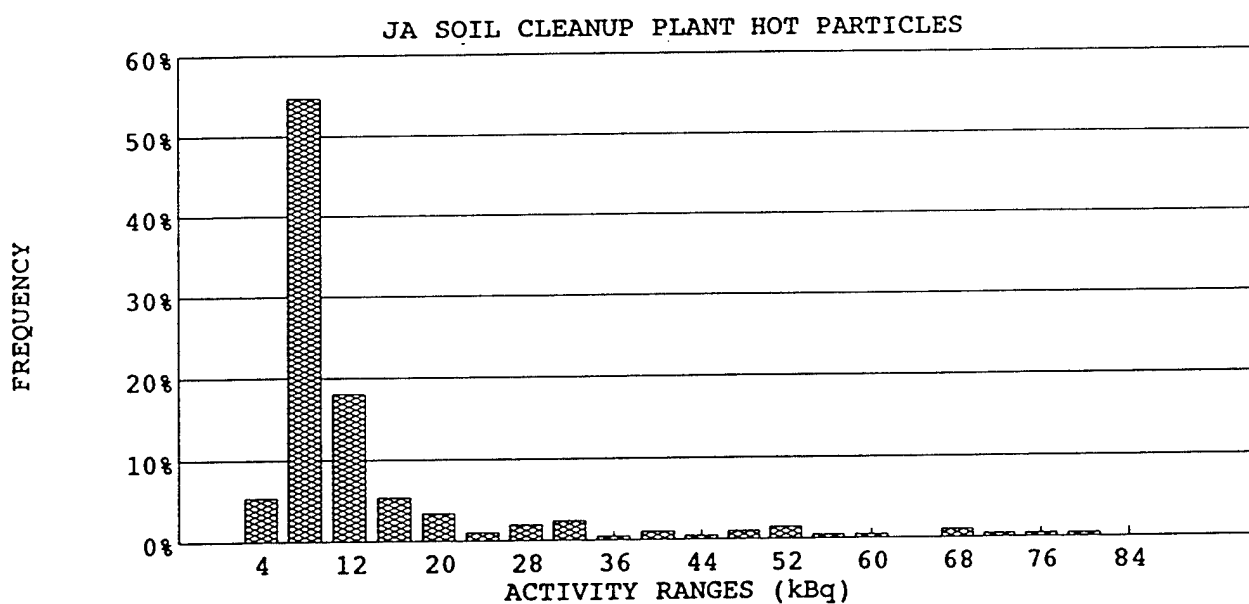
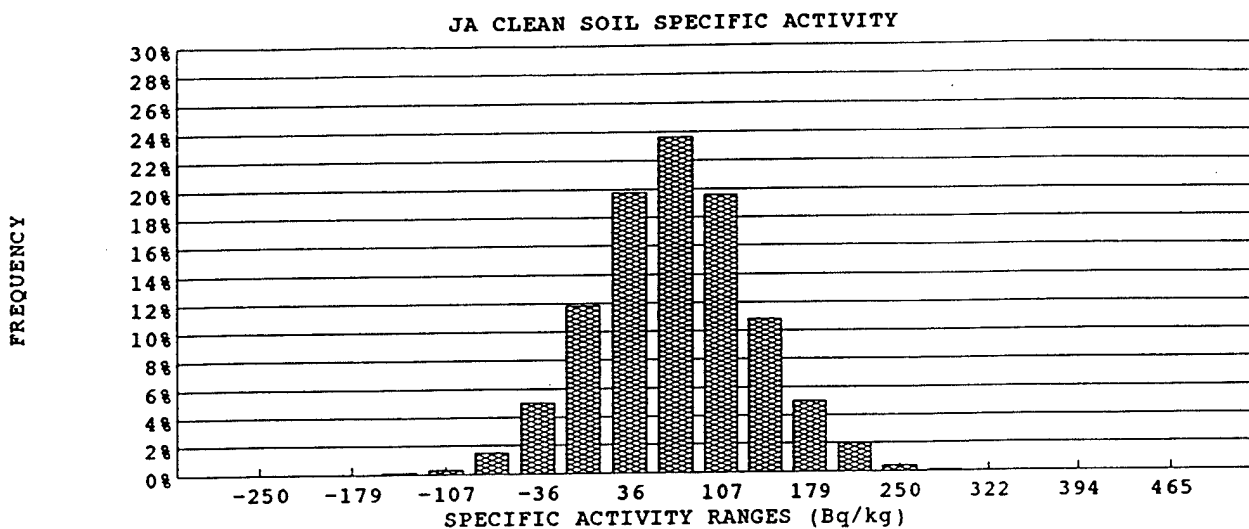
SORTER 1				08-Feb-94					
SORTER SOIL DENSITY		1.20 tons/m ³		BACKGROUND		0.67 ± 0.02 c/s			
SOIL		CONTAMINATED		CLEAN		TOTAL			
MASS TOTAL		0.1 tons		95.7 tons		95.9 tons			
MAXIMUM/SORT		3.5 kg		55.9 kg					
MINIMUM/SORT		0.7 kg		52.4 kg					
VOLUME IN-GROUND		0.1 yd ³		75.9 yd ³		76.0 yd ³			
WEIGHT RECOVERY (CLEAN/(HOT+CLEAN))		99.9%							
ACTIVITY		PARTICLE		DISPERSED + PARTICLE					
				HOT		CLEAN			
TOTAL		1,185 kBq		543 kBq		4,187 kBq			
MAXIMUM/SORT		116 kBq		48 kBq		17 kBq			
MINIMUM/SORT		3 kBq		0 Bq		-17 kBq			
SPECIFIC ACTIVITY				4,287 Bq/kg		44 Bq/kg			
SORTS				1,715		UNEXP PAUSE			
20-SEC PROCESS PERIODS						TIME TIME			
ALL 80 ELEMENTS SORT (MD>0&MND=0)				0		None None			
NONE (AD=0 & MD=0 & MND>0)				1,597					
SOME (AD>0&0<MD<MNDmax&MND<MNDmax)				118					
UNEXPLAINED RECORDS				0					
0<AD<1kBq & MD>0				0					
AD=0 & MD>0				0					
AD<0 & MD >0				0					
2-SEC COUNT PERIODS				17,150					
2-SEC RECORDS WITH SORTS				83					
2-SEC RECORDS WITHOUT SORTS				17,067					
TOTAL PROCESS RECORDS (2-s SORTS and 20-s PERIODS)				1,798					
NONPROCESSING RECORDS (Test, calibration, etc)				7					
2-SEC SORT DETECTORS									
1 DET		66	79.5%	5 DET	0	0.0%			
2 DET		12	14.5%	6 DET	0	0.0%			
3 DET		3	3.6%	7 DET	0	0.0%			
4 DET		2	2.4%	8 DET	0	0.0%			
AVERAGE TIME BETWEEN 2-SEC SORTS				519.7 sec					
FREQUENCY DISTRIBUTIONS									
1-GATE SORTS			ACT_ND	NUM	SPEC_A	FREQ%	ACT_P	NUM	FREQ%
DET	SORTS	FREQ%	(Bq)	(#)	(Bq/kg)		(kBq)	(#)	
1	3	7.5%	-14000	1	-250	0.1%	4	2	2.4%
2	5	12.5%	-12000	1	-215	0.1%	8	41	49.4%
3	7	17.5%	-10000	0	-179	0.0%	12	17	20.5%
4	6	15.0%	-8000	5	-143	0.3%	16	6	7.2%
5	11	27.5%	-6000	7	-107	0.4%	20	4	4.8%
6	7	17.5%	-4000	28	-72	1.6%	24	2	2.4%
7	1	2.5%	-2000	133	-36	7.7%	28	0	0.0%
8	0	0.0%	0	228	0	13.2%	32	3	3.6%
TOTAL	40		2000	428	36	24.9%	36	1	1.2%
			4000	325	72	18.9%	40	0	0.0%
2-GATE SORTS			6000	322	107	18.7%	44	1	1.2%
DET	SORTS	FREQ%	8000	150	143	8.7%	48	0	0.0%
9	5	11.6%	10000	63	179	3.7%	52	1	1.2%
10	6	14.0%	12000	21	215	1.2%	56	0	0.0%
11	6	14.0%	14000	3	250	0.2%	60	1	1.2%
12	10	23.3%	16000	5	286	0.3%	64	1	1.2%
13	13	30.2%	18000	2	322	0.1%	68	2	2.4%
14	3	7.0%	20000	0	358	0.0%	72	0	0.0%
15	0	0.0%	22000	0	394	0.0%	76	0	0.0%
TOTAL	43		24000	0	429	0.0%	80	0	0.0%
			26000	0	465	0.0%	84	0	0.0%
			>28000	0	0	0.0%	>84	1	1.2%
			TOTAL	1,722			TOTAL	83	
EVENT TYPES		HPE	89	MPE	92	DISE	0		



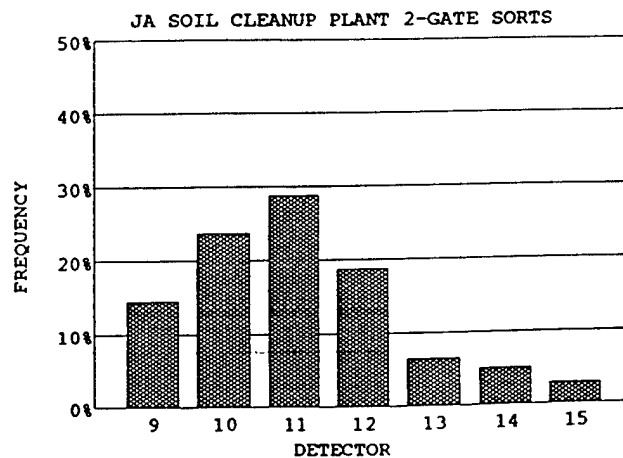
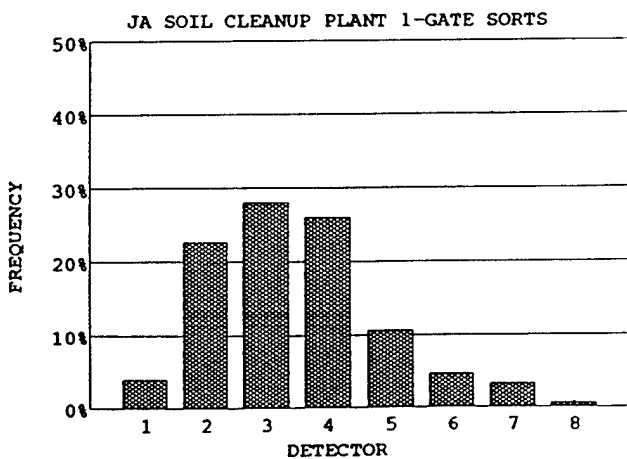
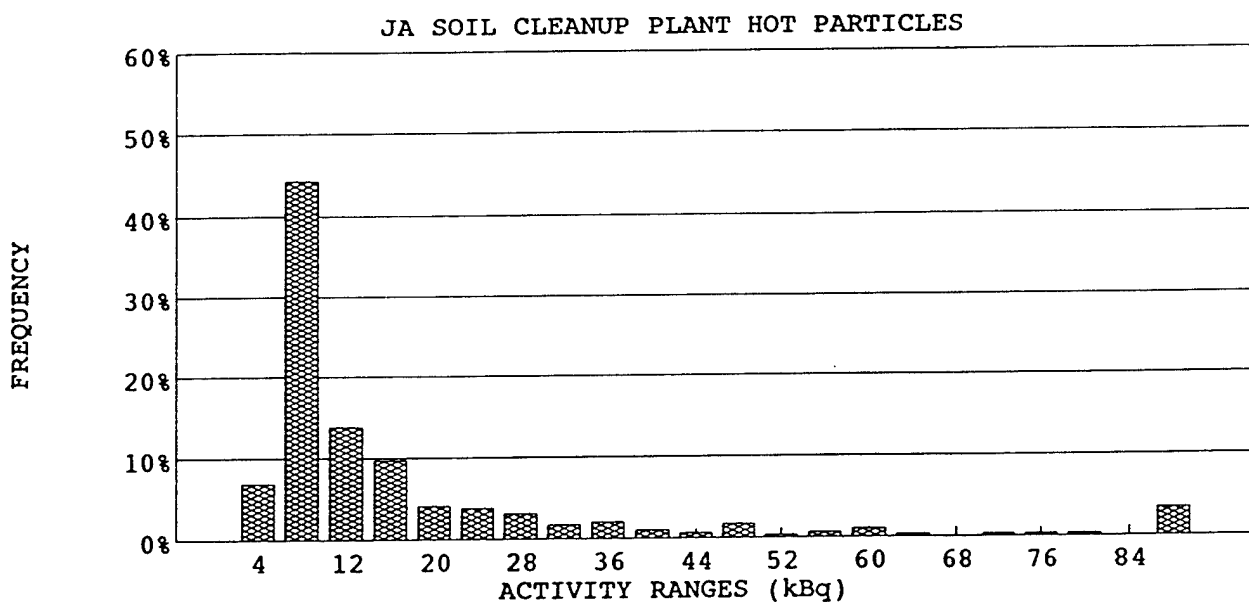
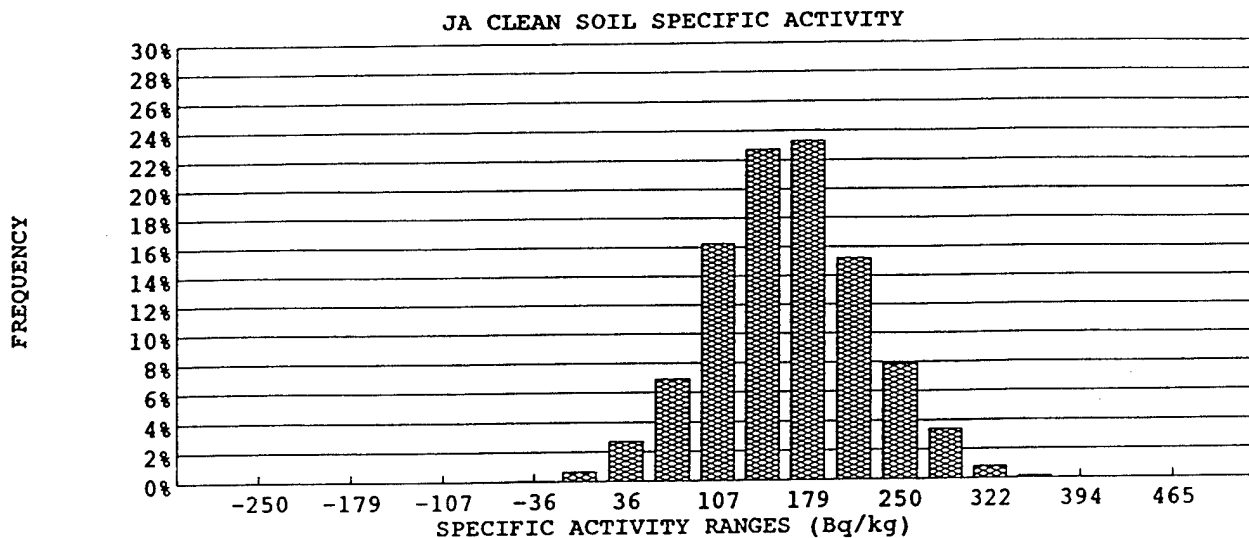
SORTER 2				08-Feb-94					
SORTER SOIL DENSITY		1.20 tons/m³		BACKGROUND		0.79 ± 0.02 c/s			
SOIL		CONTAMINATED		CLEAN		TOTAL			
MASS TOTAL		0.6 tons		94.5 tons		95.1 tons			
MAXIMUM/SORT		58.1 kg		55.9 kg					
MINIMUM/SORT		0.7 kg		51.0 kg					
VOLUME IN-GROUND		0.5 yd³		74.9 yd³		75.4 yd³			
WEIGHT RECOVERY (CLEAN/(HOT+CLEAN))		99.4%							
ACTIVITY		PARTICLE		DISPERSED + PARTICLE					
				HOT		CLEAN			
TOTAL		2,653 kBq		1,775 kBq		2,288 kBq			
MAXIMUM/SORT		635 kBq		319 kBq		16 kBq			
MINIMUM/SORT		3 kBq		0 Bq		-15 kBq			
SPECIFIC ACTIVITY				2,894 Bq/kg		24 Bq/kg			
SORTS									
20-SEC PROCESS PERIODS				1,702		UNEXP PAUSE			
ALL 80 ELEMENTS SORT (MD>0&MND=0)				1		TIME TIME			
NONE (AD=0 & MD=0 & MND>0)				1,131		None 15:41			
SOME (AD>0&0<MD<MNDmax&MND<MNDmax)				570					
UNEXPLAINED RECORDS				0					
0<AD<1kBq & MD>0				0					
AD=0 & MD>0				0					
AD<0 & MD >0				0					
2-SEC COUNT PERIODS				17,020					
2-SEC RECORDS WITH SORTS				92					
2-SEC RECORDS WITHOUT SORTS				16,928					
TOTAL PROCESS RECORDS (2-s SORTS and 20-s PERIODS)				1,794					
NONPROCESSING RECORDS (Test, calibration, etc)				6					
2-SEC SORT DETECTORS									
1 DET		70	76.1%	5 DET	0	0.0%			
2 DET		18	19.6%	6 DET	0	0.0%			
3 DET		4	4.3%	7 DET	0	0.0%			
4 DET		0	0.0%	8 DET	0	0.0%			
AVERAGE TIME BETWEEN 2-SEC SORTS				486.3 sec					
FREQUENCY DISTRIBUTIONS									
1-GATE SORTS			ACT_ND	NUM	SPEC_A	FREQ%	ACT_P	NUM	FREQ%
DET	SORTS	FREQ%	(Bq)	(#)	(Bq/kg)		(kBq)	(#)	
1	4	8.5%	-14000	4	-250	0.2%	4	2	2.2%
2	13	27.7%	-12000	0	-215	0.0%	8	42	45.7%
3	8	17.0%	-10000	1	-179	0.1%	12	17	18.5%
4	4	8.5%	-8000	5	-143	0.3%	16	4	4.3%
5	8	17.0%	-6000	13	-107	0.8%	20	6	6.5%
6	6	12.8%	-4000	62	-72	3.6%	24	4	4.3%
7	3	6.4%	-2000	219	-36	12.8%	28	2	2.2%
8	1	2.1%	0	334	0	19.6%	32	1	1.1%
TOTAL	47		2000	374	36	21.9%	36	1	1.1%
			4000	328	72	19.2%	40	4	4.3%
			6000	218	107	12.8%	44	0	0.0%
2-GATE SORTS									
DET	SORTS	FREQ%	8000	83	143	4.9%	48	1	1.1%
9	8	17.8%	10000	39	179	2.3%	52	0	0.0%
10	11	24.4%	12000	17	215	1.0%	56	1	1.1%
11	4	8.9%	14000	8	250	0.5%	60	0	0.0%
12	11	24.4%	16000	3	286	0.2%	64	1	1.1%
13	7	15.6%	18000	0	322	0.0%	68	0	0.0%
14	2	4.4%	20000	0	358	0.0%	72	1	1.1%
15	2	4.4%	22000	0	394	0.0%	76	0	0.0%
TOTAL	45		24000	0	429	0.0%	80	0	0.0%
			26000	0	465	0.0%	84	0	0.0%
			>28000	0	0	0.0%	>84	5	5.4%
			TOTAL	1,708			TOTAL	92	
EVENT TYPES		HPE	96	MPE	697	DISE	83		



SORTER 3				08-Feb-94					
SORTER SOIL DENSITY		1.20 tons/m ³		BACKGROUND		0.62 ± 0.02 c/s			
SOIL		CONTAMINATED		CLEAN		TOTAL			
MASS TOTAL		0.4 tons		97.8 tons		98.2 tons			
MAXIMUM/SORT		4.2 kg		55.9 kg					
MINIMUM/SORT		0.7 kg		51.7 kg					
VOLUME IN-GROUND		0.3 yd ³		77.5 yd ³		77.9 yd ³			
WEIGHT RECOVERY (CLEAN/(HOT+CLEAN))		99.6%							
ACTIVITY		PARTICLE		DISPERSED + PARTICLE					
TOTAL		2,504 kBq		HOT 1,555 kBq		CLEAN 5,287 kBq			
MAXIMUM/SORT		79 kBq		51 kBq		15 kBq			
MINIMUM/SORT		3 kBq		0 Bq		-8 kBq			
SPECIFIC ACTIVITY				3,531 Bq/kg		54 Bq/kg			
SORTS									
20-SEC PROCESS PERIODS				1,757		UNEXP PAUSE			
ALL 80 ELEMENTS SORT (MD>0&MND=0)				0		TIME TIME			
NONE (AD=0 & MD=0 & MND>0)				1,318		None None			
SOME (AD>0&0<MD<MNDmax&MND<MNDmax)				439					
UNEXPLAINED RECORDS				0					
0<AD<1kBq & MD>0				0					
AD=0 & MD>0				0					
AD<0 & MD >0				0					
2-SEC COUNT PERIODS				17,570					
2-SEC RECORDS WITH SORTS				205					
2-SEC RECORDS WITHOUT SORTS				17,365					
TOTAL PROCESS RECORDS (2-s SORTS and 20-s PERIODS)				1,962					
NONPROCESSING RECORDS (Test, calibration, etc)				3					
2-SEC SORT DETECTORS									
1 DET		156	76.1%	5 DET	0	0.0%			
2 DET		45	22.0%	6 DET	0	0.0%			
3 DET		4	2.0%	7 DET	0	0.0%			
4 DET		0	0.0%	8 DET	0	0.0%			
AVERAGE TIME BETWEEN 2-SEC SORTS				225.3 sec					
FREQUENCY DISTRIBUTIONS									
1-GATE SORTS			ACT_ND	NUM	SPEC_A	FREQ%	ACT_P	NUM	FREQ%
DET	SORTS	FREQ%	(Bq)	(#)	(Bq/kg)		(kBq)	(#)	
1	2	1.9%	-14000	0	-250	0.0%	4	11	5.4%
2	5	4.7%	-12000	0	-215	0.0%	8	112	54.6%
3	2	1.9%	-10000	0	-179	0.0%	12	37	18.0%
4	14	13.2%	-8000	2	-143	0.1%	16	11	5.4%
5	15	14.2%	-6000	5	-107	0.3%	20	7	3.4%
6	40	37.7%	-4000	26	-72	1.5%	24	2	1.0%
7	24	22.6%	-2000	88	-36	5.0%	28	4	2.0%
8	4	3.8%	0	208	0	11.8%	32	5	2.4%
TOTAL	106		2000	348	36	19.8%	36	1	0.5%
			4000	416	72	23.6%	40	2	1.0%
			6000	345	107	19.6%	44	1	0.5%
2-GATE SORTS			8000	191	143	10.9%	48	2	1.0%
DET	SORTS	FREQ%	10000	88	179	5.0%	52	3	1.5%
9	3	3.0%	12000	35	215	2.0%	56	1	0.5%
10	2	2.0%	14000	7	250	0.4%	60	1	0.5%
11	6	6.1%	16000	1	286	0.1%	64	0	0.0%
12	17	17.2%	18000	0	322	0.0%	68	2	1.0%
13	26	26.3%	20000	0	358	0.0%	72	1	0.5%
14	35	35.4%	22000	0	394	0.0%	76	1	0.5%
15	10	10.1%	24000	0	429	0.0%	80	1	0.5%
TOTAL	99		26000	0	465	0.0%	84	0	0.0%
			>28000	0	0	0.0%	>84	0	0.0%
			TOTAL	1,760			TOTAL	205	
EVENT TYPES			HPE	215	MPE	414	DISE	0	



SORTER 4				08-Feb-94					
SORTER SOIL DENSITY		1.20 tons/m³		BACKGROUND		0.59 ± 0.02 c/s			
SOIL		CONTAMINATED		CLEAN		TOTAL			
MASS TOTAL		0.7 tons		96.6 tons		97.3 tons			
MAXIMUM/SORT		58.7 kg		55.9 kg					
MINIMUM/SORT		0.7 kg		50.3 kg					
VOLUME IN-GROUND		0.6 yd³		76.6 yd³		77.1 yd³			
WEIGHT RECOVERY (CLEAN/(HOT+CLEAN))		99.3%							
ACTIVITY				DISPERSED + PARTICLE					
				PARTICLE		HOT		CLEAN	
TOTAL				6,224 kBq		3,267 kBq		14,121 kBq	
MAXIMUM/SORT				587 kBq		479 kBq		19 kBq	
MINIMUM/SORT				3 kBq		0 Bq		-2 kBq	
SPECIFIC ACTIVITY						4,695 Bq/kg		146 Bq/kg	
SORTS									
20-SEC PROCESS PERIODS				1,741				UNEXP PAUSE	
ALL 80 ELEMENTS SORT (MD>0&MND=0)				1				TIME TIME	
NONE (AD=0 & MD=0 & MND>0)				1,129				None 06:20	
SOME (AD>0&0<MD<MNDmax&MND<MNDmax)				611				06:23	
UNEXPLAINED RECORDS				0					
0<AD<1kBq & MD>0				0					
AD=0 & MD>0				0					
AD<0 & MD >0				0					
2-SEC COUNT PERIODS				17,410					
2-SEC RECORDS WITH SORTS				289					
2-SEC RECORDS WITHOUT SORTS				17,121					
TOTAL PROCESS RECORDS (2-s SORTS and 20-s PERIODS)				2,030					
NONPROCESSING RECORDS (Test, calibration, etc)				1					
2-SEC SORT DETECTORS									
1 DET		215	74.4%	5 DET		1	0.3%		
2 DET		58	20.1%	6 DET		0	0.0%		
3 DET		13	4.5%	7 DET		0	0.0%		
4 DET		2	0.7%	8 DET		0	0.0%		
AVERAGE TIME BETWEEN 2-SEC SORTS				162.0 sec					
FREQUENCY DISTRIBUTIONS									
1-GATE SORTS			ACT_ND	NUM	SPEC_A	FREQ%	ACT_P	NUM	FREQ%
DET	SORTS	FREQ%	(Bq)	(#)	(Bq/kg)		(kBq)	(#)	
1	6	4.0%	-14000	0	-250	0.0%	4	20	6.9%
2	34	22.7%	-12000	0	-215	0.0%	8	128	44.3%
3	42	28.0%	-10000	0	-179	0.0%	12	40	13.8%
4	39	26.0%	-8000	0	-143	0.0%	16	28	9.7%
5	16	10.7%	-6000	0	-107	0.0%	20	12	4.2%
6	7	4.7%	-4000	0	-72	0.0%	24	11	3.8%
7	5	3.3%	-2000	1	-36	0.1%	28	9	3.1%
8	1	0.7%	0	11	0	0.6%	32	5	1.7%
TOTAL	150		2000	47	36	2.7%	36	6	2.1%
			4000	121	72	6.9%	40	3	1.0%
2-GATE SORTS			6000	283	107	16.2%	44	2	0.7%
DET	SORTS	FREQ%	8000	396	143	22.7%	48	5	1.7%
9	20	14.4%	10000	406	179	23.3%	52	1	0.3%
10	33	23.7%	12000	265	215	15.2%	56	2	0.7%
11	40	28.8%	14000	137	250	7.9%	60	3	1.0%
12	26	18.7%	16000	59	286	3.4%	64	1	0.3%
13	9	6.5%	18000	14	322	0.8%	68	0	0.0%
14	7	5.0%	20000	2	358	0.1%	72	1	0.3%
15	4	2.9%	22000	0	394	0.0%	76	1	0.3%
TOTAL	139		24000	0	429	0.0%	80	1	0.3%
			26000	0	465	0.0%	84	0	0.0%
			>28000	0	0	0.0%	>84	10	3.5%
			TOTAL	1,742			TOTAL	289	
EVENT TYPES		HPE	289	MPE	621	DISE	83		



WORK HISTORY - JA SOIL CLEANUP PLANT

09-Feb-94

WORK DAY START	05:40 AM	WORK DAY END	16:30 PM
LUNCH START	11:00 AM	TIME LOST DURING LUNCH	0.0 HR

	SORTER 1	SORTER 2	SORTER 3	SORTER 4	TOTAL (sorter hours)
WORK HOURS	10.8 hr	10.8 hr	10.8 hr	10.8 hr	43.3 hr
SORTER AVAILABLE HOURS	10.8 hr	10.8 hr	10.8 hr	10.8 hr	43.3 hr
SORTER START-UP	05:40	05:40	05:40	05:40	
START SOIL PROCESSING	06:10	06:09	06:11	06:11	
TIME REQUIRED TO START-UP	0.5 hr	0.5 hr	0.5 hr	0.5 hr	2.1 hr
SORTER SHUT-DOWN	16:30	16:30	16:30	16:30	
END SOIL PROCESSING	15:52	15:52	16:08	16:07	
TIME REQUIRED TO SHUT DOWN	0.6 hr	0.6 hr	0.4 hr	0.4 hr	2.0 hr
ACTUAL PROCESS HOURS	9.7 hr	9.7 hr	9.9 hr	9.9 hr	39.2 hr
DOWN-TIME	1.1 hr	1.1 hr	0.9 hr	1.0 hr	4.2 hr
SYSTEM PAUSE	0.0 hr	0.0 hr	0.1 hr	0.1 hr	0.1 hr
SORTER NONAVAILABLE TIME	0.0 hr	0.0 hr	0.0 hr	0.0 hr	0.0 hr
AUTHORIZED DELAY TIME	0.0 hr	0.0 hr	0.0 hr	0.0 hr	0.0 hr
PLANT PERFORMANCE					90.4%
PRODUCTIVITY					90.4%

PRODUCTIVITY

Date	09-Feb-94	Excused Delays for day (sorter-hrs)	0 hr
Contract day (from 6 Sep)	123	Excused delays for contract (sorter-hrs)	1,601 hr
Current Contract week	21	Excused delay days (plant-days)	40 days
		Excused delay months (plant-month)	1.54 months
Soil production for Day	394 MT		
Cumulative Soil Production for Week	1,166 MT	Percent of contract completed	33.2%
Total Soil production for contract		Tons Ahead or Behind Schedule	1,574 MT
Since 6 Sep 93	31,651 MT	Days ahead or behind schedule	5 days
Since 6 Aug 93	33,242 MT		
Total Soil production for project	59,529 MT		

MT = metric tons

SORTER 1

09-Feb-94

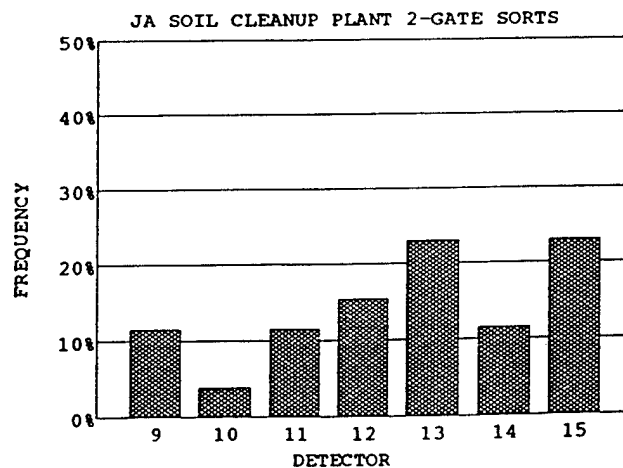
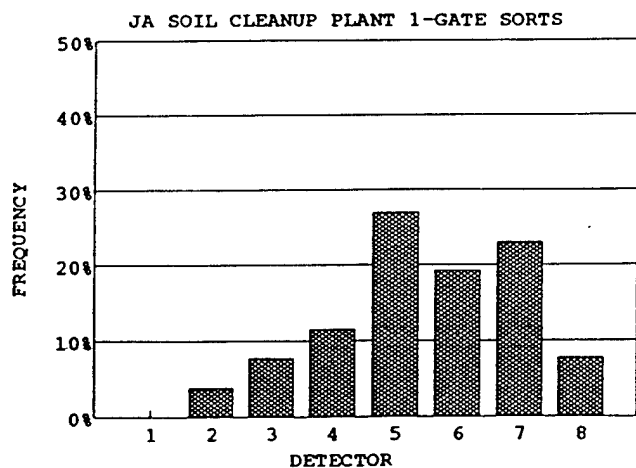
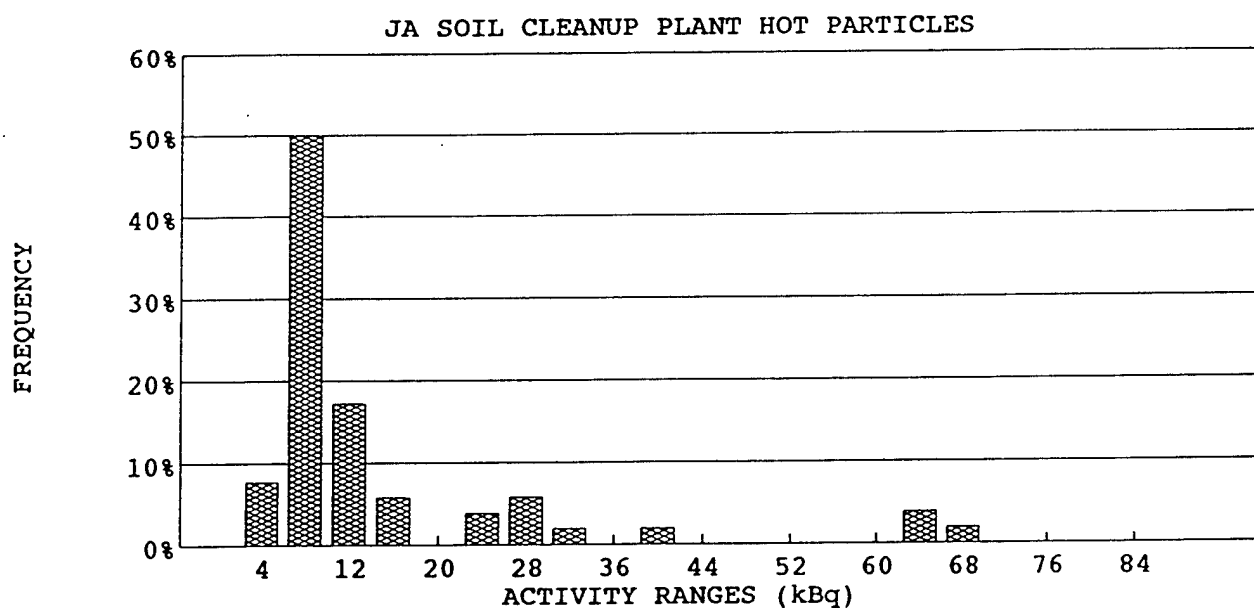
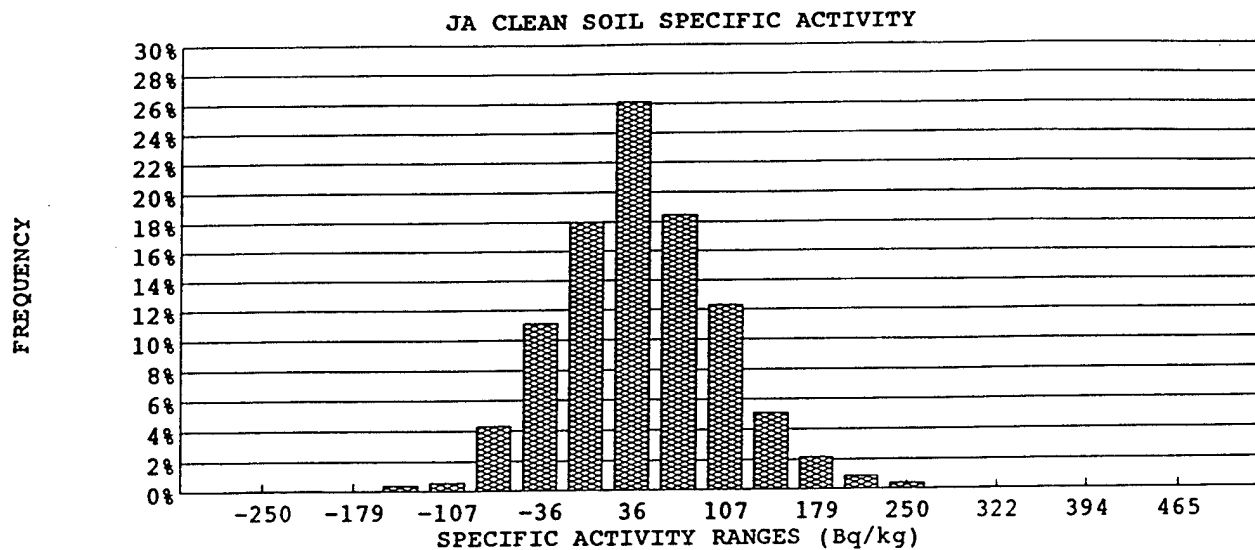
SORTER SOIL DENSITY		1.20 tons/m ³	BACKGROUND		0.69 ± 0.02 c/s
SOIL		CONTAMINATED	CLEAN	TOTAL	
MASS TOTAL		0.1 tons	97.5 tons	97.6 tons	
MAXIMUM/SORT		2.8 kg	55.9 kg		
MINIMUM/SORT		0.7 kg	53.1 kg		
VOLUME IN-GROUND		0.1 yd ³	77.3 yd ³	77.4 yd ³	
WEIGHT RECOVERY (CLEAN/(HOT+CLEAN))		99.9%			

ACTIVITY		PARTICLE	DISPERSED + PARTICLE	
			HOT	CLEAN
TOTAL		671 kBq	372 kBq	2,399 kBq
MAXIMUM/SORT		65 kBq	46 kBq	16 kBq
MINIMUM/SORT		3 kBq	0 Bq	-9 kBq
SPECIFIC ACTIVITY			3,687 Bq/kg	25 Bq/kg

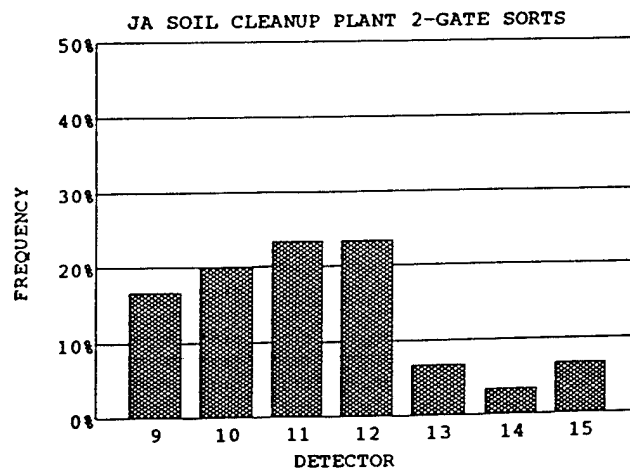
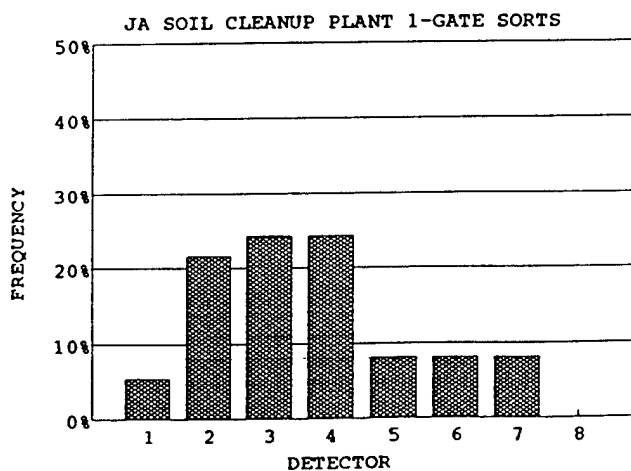
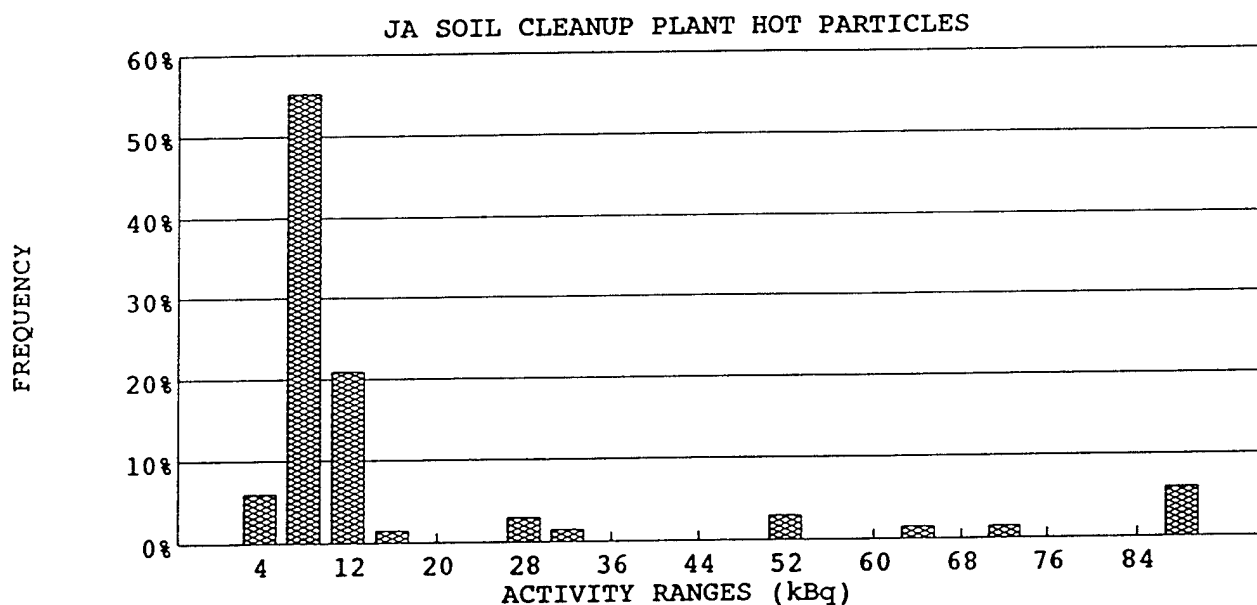
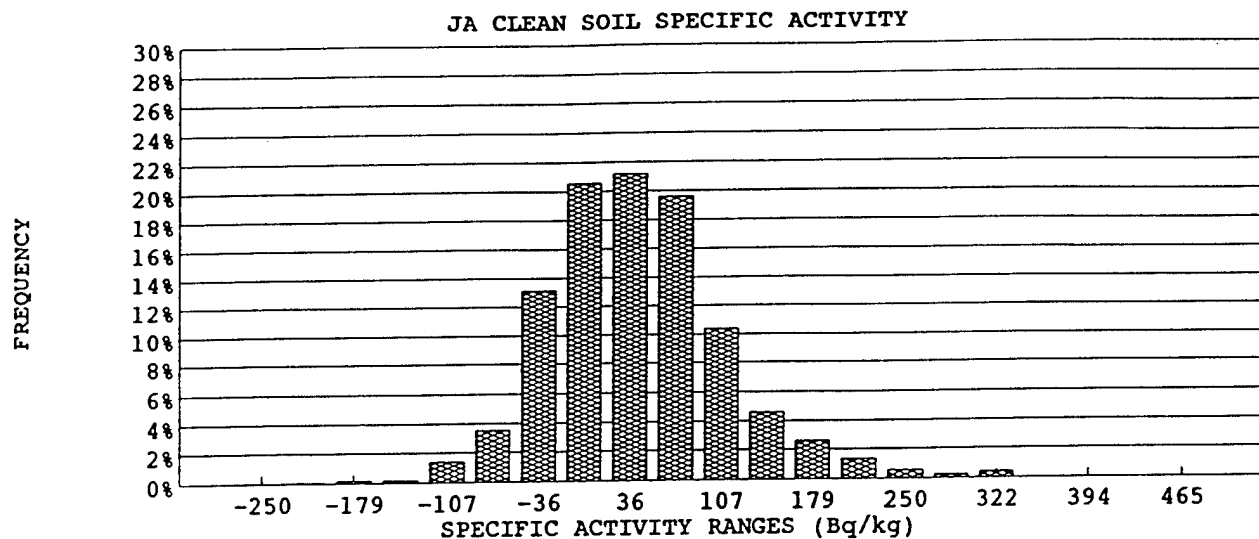
SORTS							
20-SEC PROCESS PERIODS				1,746		UNEXP	PAUSE
ALL 80 ELEMENTS SORT (MD>0&MND=0)			0			TIME	TIME
NONE (AD=0 & MD=0 & MND>0)			1,639			None	None
SOME (AD>0&0<MD<MNDmax&MND<MNDmax)			107				
UNEXPLAINED RECORDS			0				
0<AD<1kBq & MD>0			0				
AD=0 & MD>0			0				
AD<0 & MD>0			0				
2-SEC COUNT PERIODS				17,460			
2-SEC RECORDS WITH SORTS			52				
2-SEC RECORDS WITHOUT SORTS			17,408				
TOTAL PROCESS RECORDS (2-s SORTS and 20-s PERIODS)				1,798			
NONPROCESSING RECORDS (Test, calibration, etc)				8			
2-SEC SORT DETECTORS							
1 DET	39 75.0%	5 DET	0	0.0%			
2 DET	10 19.2%	6 DET	0	0.0%			
3 DET	2 3.8%	7 DET	0	0.0%			
4 DET	1 1.9%	8 DET	0	0.0%			
AVERAGE TIME BETWEEN 2- SEC SORTS			895.4 sec				

FREQUENCY DISTRIBUTIONS

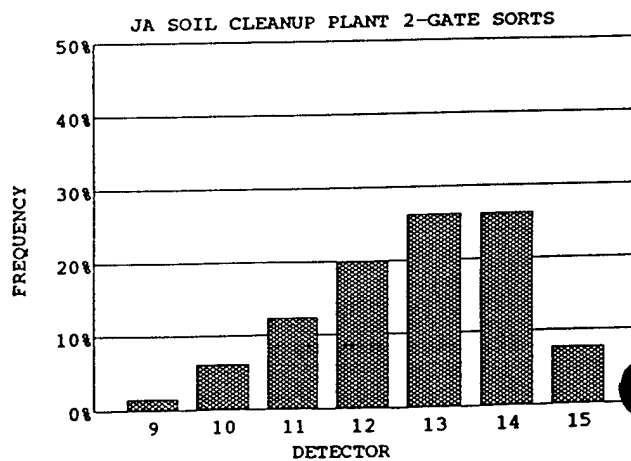
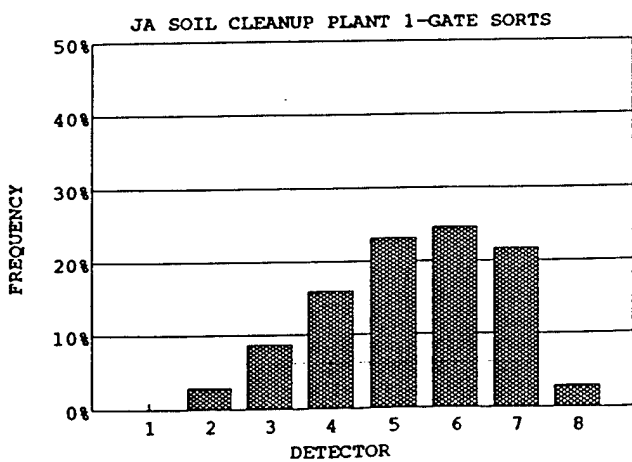
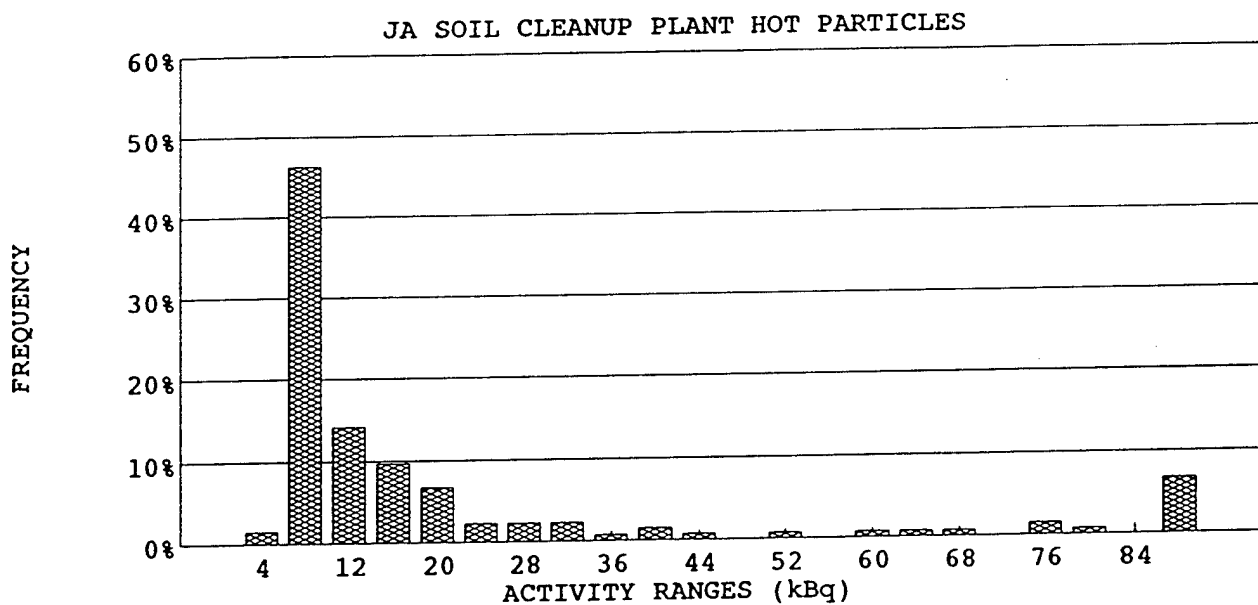
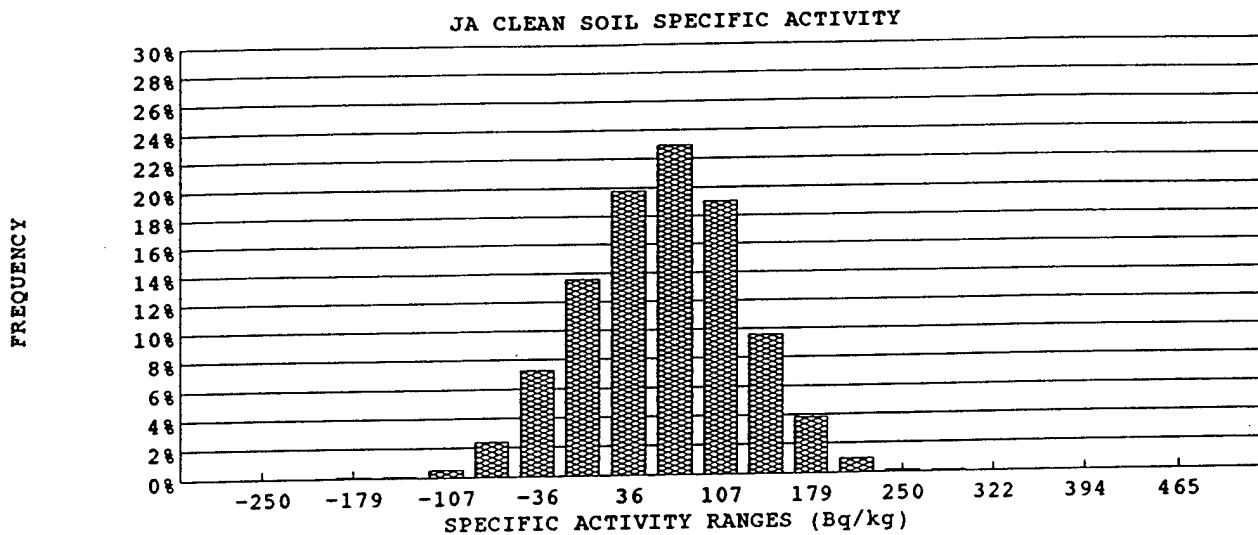
1-GATE SORTS			ACT_ND	NUM	SPEC_A	FREQ%	ACT_P	NUM	FREQ%
DET	SORTS	FREQ%	(Bq)	(#)	(Bq/kg)		(kBq)	(#)	
1	0	0.0%	-14000	1	-250	0.1%	4	4	7.7%
2	1	3.8%	-12000	1	-215	0.1%	8	26	50.0%
3	2	7.7%	-10000	0	-179	0.0%	12	9	17.3%
4	3	11.5%	-8000	7	-143	0.4%	16	3	5.8%
5	7	26.9%	-6000	10	-107	0.6%	20	0	0.0%
6	5	19.2%	-4000	75	-72	4.3%	24	2	3.8%
7	6	23.1%	-2000	195	-36	11.1%	28	3	5.8%
8	2	7.7%	0	315	0	18.0%	32	1	1.9%
TOTAL	26		2000	458	36	26.1%	36	0	0.0%
2-GATE SORTS			4000	324	72	18.5%	40	1	1.9%
			6000	216	107	12.3%	44	0	0.0%
DET	SORTS	FREQ%	8000	90	143	5.1%	48	0	0.0%
9	3	11.5%	10000	38	179	2.2%	52	0	0.0%
10	1	3.8%	12000	15	215	0.9%	56	0	0.0%
11	3	11.5%	14000	7	250	0.4%	60	0	0.0%
12	4	15.4%	16000	1	286	0.1%	64	2	3.8%
13	6	23.1%	18000	1	322	0.1%	68	1	1.9%
14	3	11.5%	20000	0	358	0.0%	72	0	0.0%
15	6	23.1%	22000	0	394	0.0%	76	0	0.0%
TOTAL	26		24000	0	429	0.0%	80	0	0.0%
			26000	0	465	0.0%	84	0	0.0%
			>28000	0	0	0.0%	>84	0	0.0%
TOTAL				1,754			TOTAL	52	
EVENT TYPES			HPE	50	MPE	94	DISE	0	



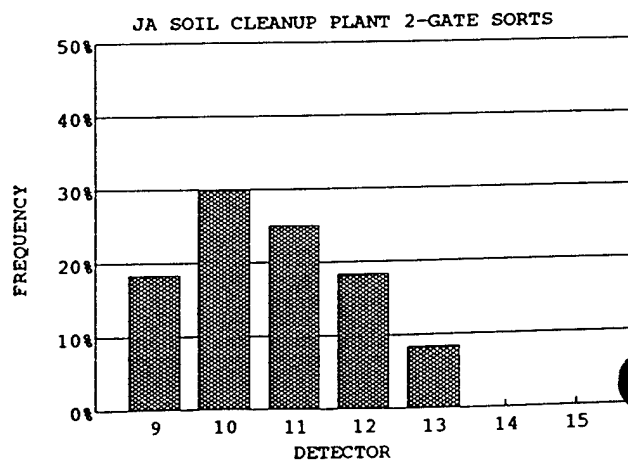
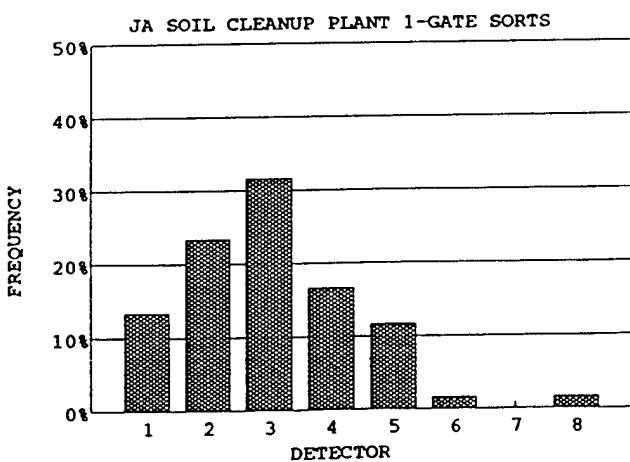
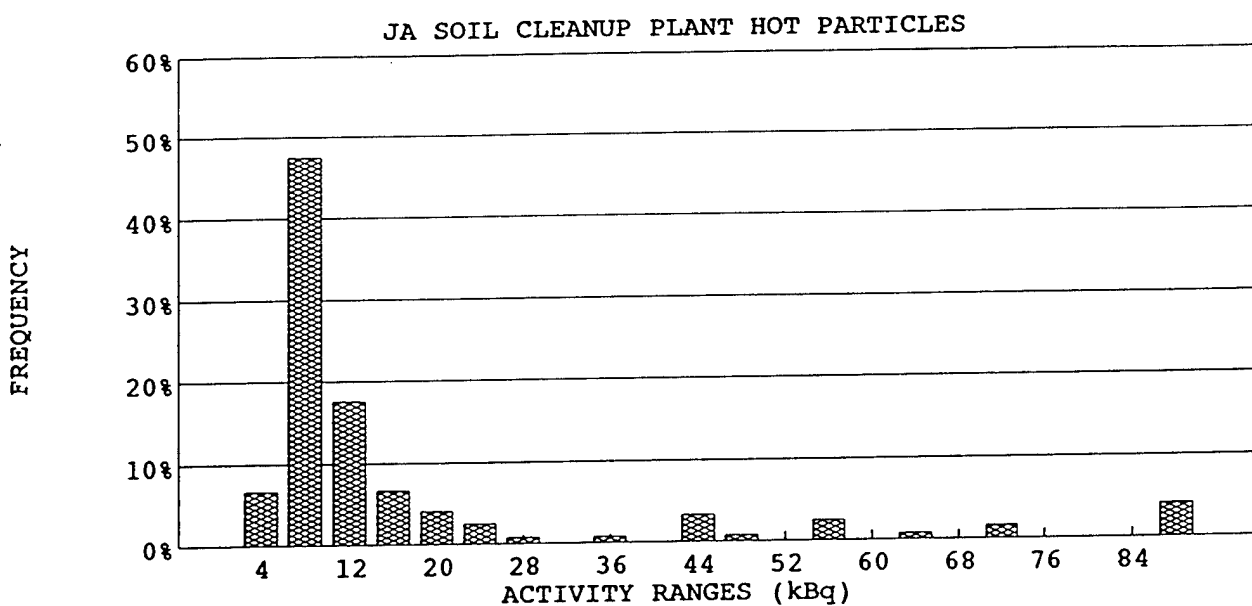
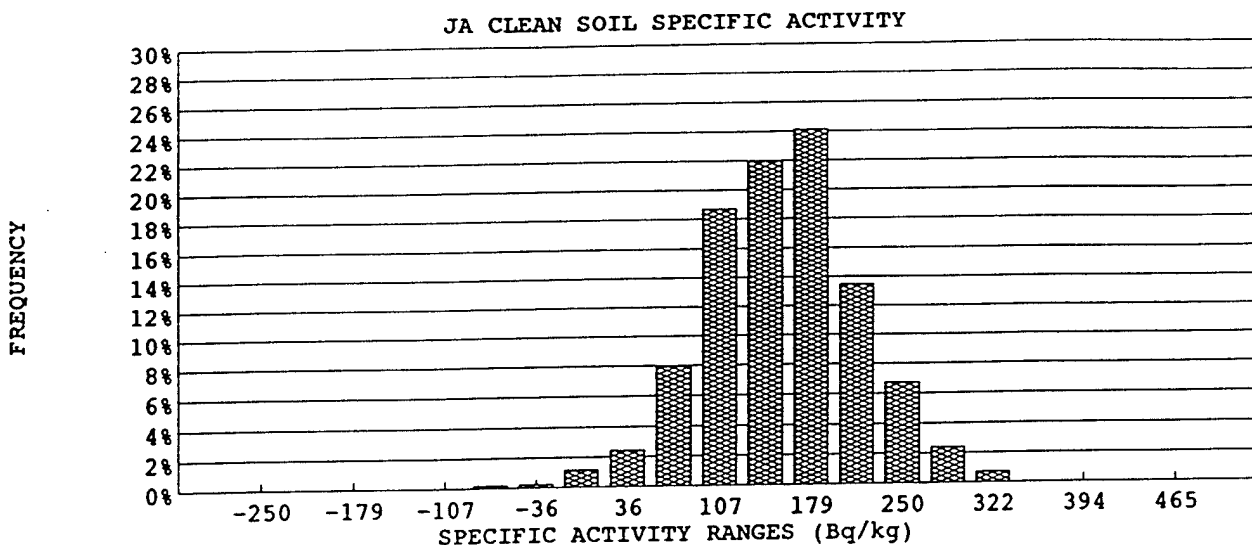
SORTER 2				09-Feb-94					
SORTER SOIL DENSITY		1.20 tons/m ³		BACKGROUND		0.79 ± 0.03 c/s			
SOIL				CONTAMINATED		CLEAN		TOTAL	
MASS TOTAL				0.5 tons		97.3 tons		97.8 tons	
MAXIMUM/SORT				4.2 kg		55.9 kg			
MINIMUM/SORT				0.7 kg		51.7 kg			
VOLUME IN-GROUND				0.4 yd ³		77.1 yd ³		77.5 yd ³	
WEIGHT RECOVERY (CLEAN/(HOT+CLEAN))				99.5%					
ACTIVITY				DISPERSED + PARTICLE					
				PARTICLE		HOT		CLEAN	
TOTAL				1,219 kBq		1,273 kBq		2,334 kBq	
MAXIMUM/SORT				211 kBq		94 kBq		17 kBq	
MINIMUM/SORT				3 kBq		0 Bq		-11 kBq	
SPECIFIC ACTIVITY						2,482 Bq/kg		24 Bq/kg	
SORTS									
20-SEC PROCESS PERIODS				1,749				UNEXP PAUSE	
ALL 80 ELEMENTS SORT (MD>0&MND=0)				0				TIME TIME	
NONE (AD=0 & MD=0 & MND>0)				1,218				11:12 None	
SOME (AD>0&0<MD<MNDmax&MND<MNDmax)				531					
UNEXPLAINED RECORDS				0					
0<AD<1kBq & MD>0				1					
AD=0 & MD>0				0					
AD<0 & MD >0				0					
2-SEC COUNT PERIODS				17,490					
2-SEC RECORDS WITH SORTS				67					
2-SEC RECORDS WITHOUT SORTS				17,423					
TOTAL PROCESS RECORDS (2-s SORTS and 20-s PERIODS)				1,816					
NONPROCESSING RECORDS (Test, calibration, etc)				3					
2-SEC SORT DETECTORS									
1 DET		55	82.1%	5 DET		0	0.0%		
2 DET		11	16.4%	6 DET		0	0.0%		
3 DET		1	1.5%	7 DET		0	0.0%		
4 DET		0	0.0%	8 DET		0	0.0%		
AVERAGE TIME BETWEEN 2-SEC SORTS				636.0 sec					
FREQUENCY DISTRIBUTIONS									
1-GATE SORTS			ACT_ND	NUM	SPEC_A	FREQ%	ACT_P	NUM	FREQ%
DET	SORTS	FREQ%	(Bq)	(#)	(Bq/kg)		(kBq)	(#)	
1	2	5.4%	-14000	0	-250	0.0%	4	4	6.0%
2	8	21.6%	-12000	1	-215	0.1%	8	37	55.2%
3	9	24.3%	-10000	3	-179	0.2%	12	14	20.9%
4	9	24.3%	-8000	3	-143	0.2%	16	1	1.5%
5	3	8.1%	-6000	25	-107	1.4%	20	0	0.0%
6	3	8.1%	-4000	61	-72	3.5%	24	0	0.0%
7	3	8.1%	-2000	230	-36	13.1%	28	2	3.0%
8	0	0.0%	0	360	0	20.5%	32	1	1.5%
TOTAL		37	2000	371	36	21.2%	36	0	0.0%
			4000	343	72	19.6%	40	0	0.0%
2-GATE SORTS			6000	182	107	10.4%	44	0	0.0%
DET	SORTS	FREQ%	8000	80	143	4.6%	48	0	0.0%
9	5	16.7%	10000	46	179	2.6%	52	2	3.0%
10	6	20.0%	12000	24	215	1.4%	56	0	0.0%
11	7	23.3%	14000	10	250	0.6%	60	0	0.0%
12	7	23.3%	16000	5	286	0.3%	64	1	1.5%
13	2	6.7%	18000	8	322	0.5%	68	0	0.0%
14	1	3.3%	20000	0	358	0.0%	72	1	1.5%
15	2	6.7%	22000	0	394	0.0%	76	0	0.0%
TOTAL		30	24000	0	429	0.0%	80	0	0.0%
			26000	0	465	0.0%	84	0	0.0%
			>28000	0	0	0.0%	>84	4	6.0%
			TOTAL	1,752			TOTAL	67	
EVENT TYPES		HPE	72	MPE	661	DISE	0		



SORTER 3				09-Feb-94					
SORTER SOIL DENSITY			1.20 tons/m ³	BACKGROUND		0.63 ± 0.02 c/s			
SOIL			CONTAMINATED	CLEAN	TOTAL				
MASS TOTAL			0.5 tons	99.2 tons	99.6 tons				
MAXIMUM/SORT			58.1 kg	55.9 kg					
MINIMUM/SORT			0.7 kg	48.2 kg					
VOLUME IN-GROUND			0.4 yd ³	78.6 yd ³	79.0 yd ³				
WEIGHT RECOVERY (CLEAN/(HOT+CLEAN))			99.5%						
ACTIVITY			DISPERSED + PARTICLE						
			PARTICLE	HOT	CLEAN				
TOTAL			10,135 kBq	4,309 kBq	4,408 kBq				
MAXIMUM/SORT			2,502 kBq	1,260 kBq	14 kBq				
MINIMUM/SORT			4 kBq	0 Bq	-10 kBq				
SPECIFIC ACTIVITY			9,327 Bq/kg		44 Bq/kg				
SORTS									
20-SEC PROCESS PERIODS				1,782	UNEXP	PAUSE			
ALL 80 ELEMENTS SORT (MD>0&MND=0)				1	TIME	TIME			
NONE (AD=0 & MD=0 & MND>0)				1,381	None	08:52			
SOME (AD>0&0<MD<MNDmax&MND<MNDmax)				400					
UNEXPLAINED RECORDS				0					
0<AD<1kBq & MD>0				0					
AD=0 & MD>0				0					
AD<0 & MD >0				0					
2-SEC COUNT PERIODS				17,820					
2-SEC RECORDS WITH SORTS				134					
2-SEC RECORDS WITHOUT SORTS				17,686					
TOTAL PROCESS RECORDS (2-s SORTS and 20-s PERIODS)				1,916					
NONPROCESSING RECORDS (Test, calibration, etc)				5					
2-SEC SORT DETECTORS									
1 DET		89	66.4%	5 DET	2	1.5%			
2 DET		31	23.1%	6 DET	0	0.0%			
3 DET		8	6.0%	7 DET	0	0.0%			
4 DET		4	3.0%	8 DET	0	0.0%			
AVERAGE TIME BETWEEN 2-SEC SORTS				400.4 sec					
FREQUENCY DISTRIBUTIONS									
1-GATE SORTS			ACT_ND	NUM	SPEC_A	FREQ%	ACT_P	NUM	FREQ%
DET	SORTS	FREQ%	(Bq)	(#)	(Bq/kg)		(kBq)	(#)	
1	0	0.0%	-14000	0	-250	0.0%	4	2	1.5%
2	2	2.9%	-12000	0	-215	0.0%	8	62	46.3%
3	6	8.7%	-10000	1	-179	0.1%	12	19	14.2%
4	11	15.9%	-8000	1	-143	0.1%	16	13	9.7%
5	16	23.2%	-6000	9	-107	0.5%	20	9	6.7%
6	17	24.6%	-4000	42	-72	2.4%	24	3	2.2%
7	15	21.7%	-2000	130	-36	7.3%	28	3	2.2%
8	2	2.9%	0	242	0	13.5%	32	3	2.2%
TOTAL	69		2000	353	36	19.8%	36	1	0.7%
			4000	410	72	22.9%	40	2	1.5%
2-GATE SORTS			6000	340	107	19.0%	44	1	0.7%
DET	SORTS	FREQ%	8000	171	143	9.6%	48	0	0.0%
9	1	1.5%	10000	68	179	3.8%	52	1	0.7%
10	4	6.2%	12000	17	215	1.0%	56	0	0.0%
11	8	12.3%	14000	2	250	0.1%	60	1	0.7%
12	13	20.0%	16000	1	286	0.1%	64	1	0.7%
13	17	26.2%	18000	0	322	0.0%	68	1	0.7%
14	17	26.2%	20000	0	358	0.0%	72	0	0.0%
15	5	7.7%	22000	0	394	0.0%	76	2	1.5%
TOTAL	65		24000	0	429	0.0%	80	1	0.7%
			26000	0	465	0.0%	84	0	0.0%
			>28000	0	0	0.0%	>84	9	6.7%
			TOTAL	1,787			TOTAL	134	
EVENT TYPES		HPE	128	MPE	449	DISE	83		



SORTER 4				09-Feb-94					
SORTER SOIL DENSITY		1.20 tons/m³		BACKGROUND		0.60 ± 0.02 c/s			
SOIL		CONTAMINATED		CLEAN		TOTAL			
MASS TOTAL		0.6 tons		98.7 tons		99.2 tons			
MAXIMUM/SORT		58.7 kg		55.9 kg					
MINIMUM/SORT		0.7 kg		49.6 kg					
VOLUME IN-GROUND		0.4 yd³		78.2 yd³		78.7 yd³			
WEIGHT RECOVERY (CLEAN/(HOT+CLEAN))		99.4%							
ACTIVITY		PARTICLE		DISPERSED + PARTICLE					
				HOT		CLEAN			
TOTAL		3,371 kBq		1,917 kBq		13,809 kBq			
MAXIMUM/SORT		797 kBq		565 kBq		18 kBq			
MINIMUM/SORT		3 kBq		(2,071)Bq		-5 kBq			
SPECIFIC ACTIVITY				3,481 Bq/kg		140 Bq/kg			
SORTS									
20-SEC PROCESS PERIODS				1,775		UNEXP PAUSE			
ALL 80 ELEMENTS SORT (MD>0&MND=0)				2		TIME TIME			
NONE (AD=0 & MD=0 & MND>0)				1,300		06:18 06:13			
SOME (AD>0&0<MD<MNDmax&MND<MNDmax)				473		06:15			
UNEXPLAINED RECORDS				0					
0<AD<1kBq & MD>0				0					
AD=0 & MD>0				0					
AD<0 & MD >0				1					
2-SEC COUNT PERIODS				17,750					
2-SEC RECORDS WITH SORTS				120					
2-SEC RECORDS WITHOUT SORTS				17,630					
TOTAL PROCESS RECORDS (2-s SORTS and 20-s PERIODS)				1,895					
NONPROCESSING RECORDS (Test, calibration, etc)				1					
2-SEC SORT DETECTORS									
1 DET		87	72.5%	5 DET	0	0.0%			
2 DET		25	20.8%	6 DET	0	0.0%			
3 DET		7	5.8%	7 DET	0	0.0%			
4 DET		1	0.8%	8 DET	0	0.0%			
AVERAGE TIME BETWEEN 2-SEC SORTS				408.0 sec					
FREQUENCY DISTRIBUTIONS									
1-GATE SORTS			ACT_ND	NUM	SPEC_A	FREQ%	ACT_P	NUM	FREQ%
DET	SORTS	FREQ%	(Bq)	(#)	(Bq/kg)		(kBq)	(#)	
1	8	13.3%	-14000	0	-250	0.0%	4	8	6.7%
2	14	23.3%	-12000	0	-215	0.0%	8	57	47.5%
3	19	31.7%	-10000	0	-179	0.0%	12	21	17.5%
4	10	16.7%	-8000	0	-143	0.0%	16	8	6.7%
5	7	11.7%	-6000	0	-107	0.0%	20	5	4.2%
6	1	1.7%	-4000	3	-72	0.2%	24	3	2.5%
7	0	0.0%	-2000	4	-36	0.2%	28	1	0.8%
8	1	1.7%	0	21	0	1.2%	32	0	0.0%
TOTAL	60		2000	43	36	2.4%	36	1	0.8%
			4000	141	72	7.9%	40	0	0.0%
			6000	332	107	18.7%	44	4	3.3%
2-GATE SORTS			8000	390	143	22.0%	48	1	0.8%
DET	SORTS	FREQ%	10000	428	179	24.1%	52	0	0.0%
9	11	18.3%	12000	239	215	13.5%	56	3	2.5%
10	18	30.0%	14000	120	250	6.8%	60	0	0.0%
11	15	25.0%	16000	42	286	2.4%	64	1	0.8%
12	11	18.3%	18000	13	322	0.7%	68	0	0.0%
13	5	8.3%	20000	0	358	0.0%	72	2	1.7%
14	0	0.0%	22000	0	394	0.0%	76	0	0.0%
15	0	0.0%	24000	0	429	0.0%	80	0	0.0%
TOTAL	60		26000	0	465	0.0%	84	0	0.0%
			>28000	0	0	0.0%	>84	5	4.2%
			TOTAL	1,776			TOTAL	120	
EVENT TYPES		HPE	125	MPE	494	DISE	166		



WORK HISTORY - JA SOIL CLEANUP PLANT

10-Feb-94

WORK DAY START	05:45 AM	WORK DAY END	16:30 PM
LUNCH START	11:00 AM	TIME LOST DURING LUNCH	0.0 HR

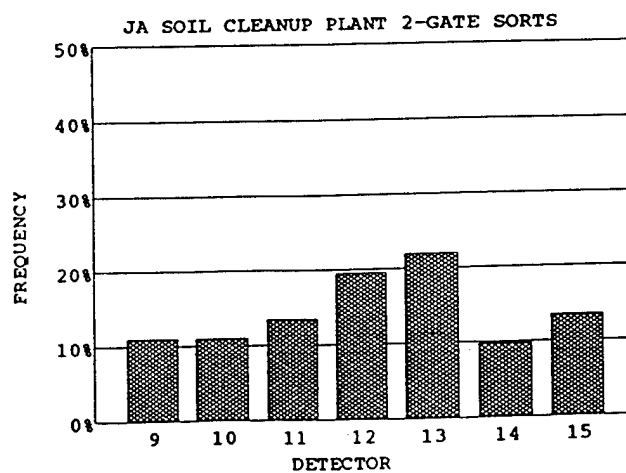
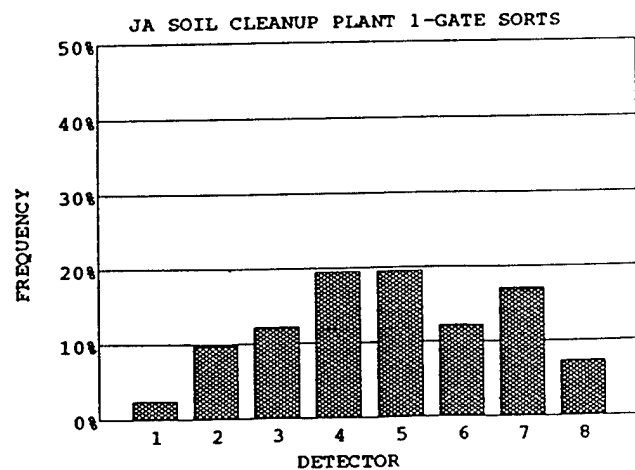
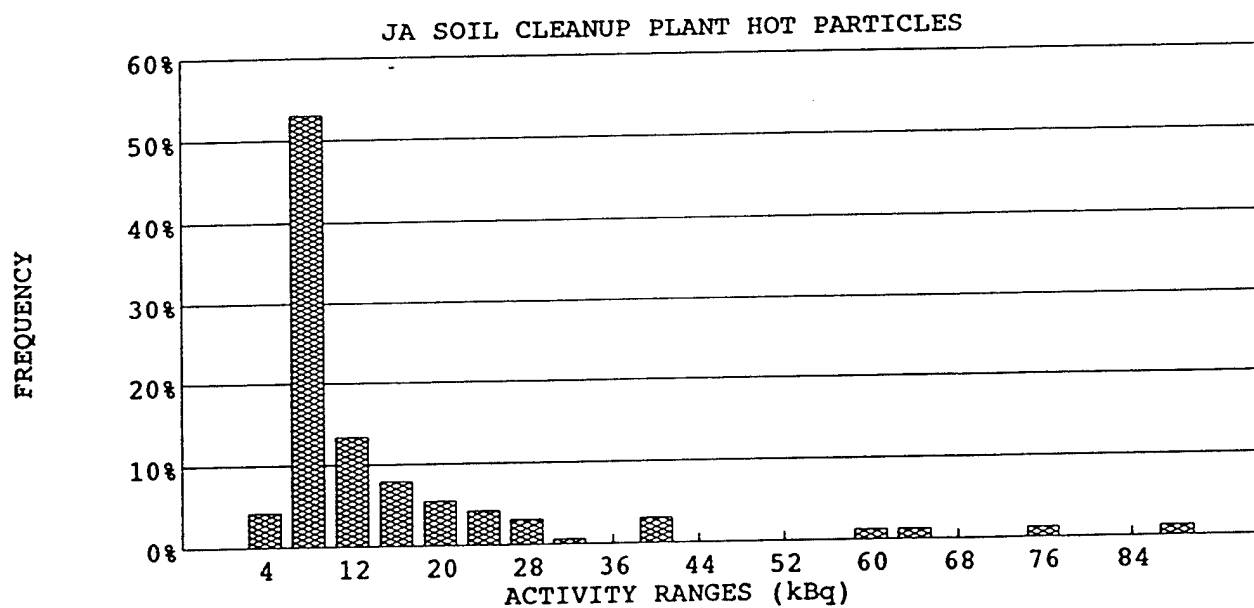
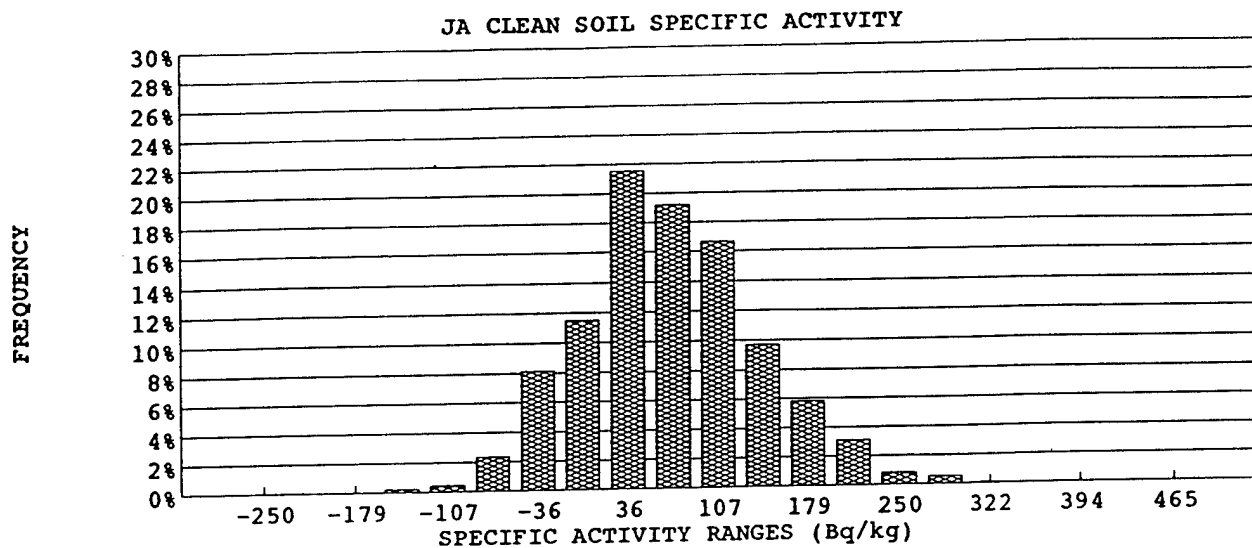
	SORTER 1	SORTER 2	SORTER 3	SORTER 4	TOTAL (sorter hours)
WORK HOURS	10.8 hr	10.8 hr	10.8 hr	10.8 hr	43.0 hr
SORTER AVAILABLE HOURS	10.5 hr	10.5 hr	10.5 hr	10.5 hr	42.0 hr
SORTER START-UP	05:45	05:45	05:45	05:45	
START SOIL PROCESSING	06:04	06:04	06:05	06:05	
TIME REQUIRED TO START-UP	0.3 hr	0.3 hr	0.3 hr	0.3 hr	1.3 hr
SORTER SHUT-DOWN	16:15	16:15	16:15	16:15	
END SOIL PROCESSING	15:54	15:52	15:53	15:45	
TIME REQUIRED TO SHUT DOWN	0.3 hr	0.4 hr	0.4 hr	0.5 hr	1.6 hr
ACTUAL PROCESS HOURS	9.8 hr	9.8 hr	9.8 hr	9.7 hr	39.1 hr
DOWN-TIME	0.7 hr	0.7 hr	0.7 hr	0.8 hr	2.9 hr
SYSTEM PAUSE	0.0 hr	0.0 hr	0.0 hr	0.0 hr	0.0 hr
SORTER NONAVAILABLE TIME	0.3 hr	0.3 hr	0.3 hr	0.3 hr	1.0 hr
AUTHORIZED DELAY TIME	0.0 hr	0.0 hr	0.0 hr	0.0 hr	0.0 hr
PLANT PERFORMANCE					93.2%
PRODUCTIVITY					91.0%

PRODUCTIVITY

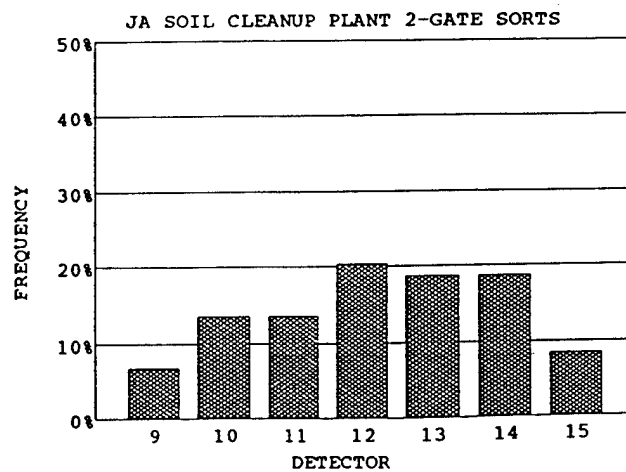
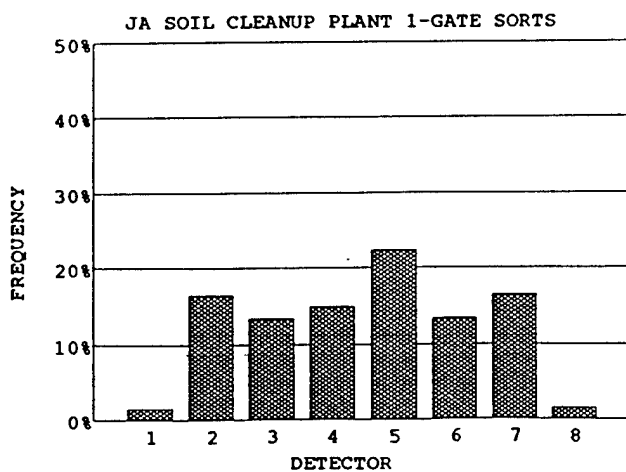
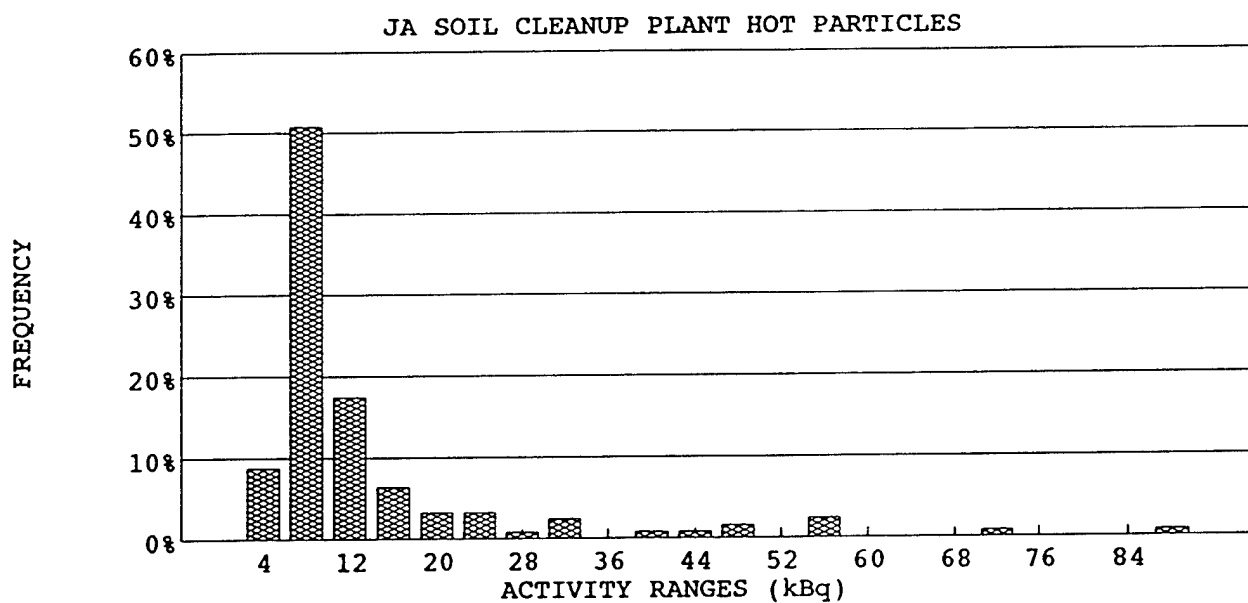
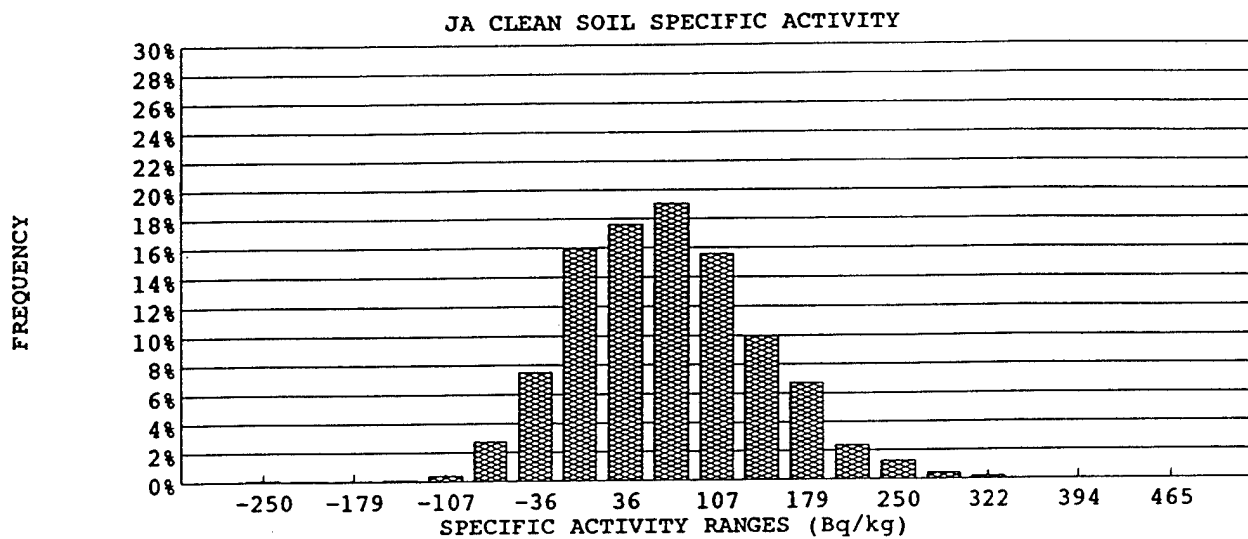
Date	10-Feb-94	Excused Delays for day (sorter-hrs)	0 hr
Contract day (from 6 Sep)	124	Excused delays for contract (sorter-hrs)	1,601 hr
Current Contract week	21	Excused delay days (plant-days)	40 days
		Excused delay months (plant-month)	1.54 months
Soil production for Day	394 MT		
Cumulative Soil Production for Week	1,560 MT	Percent of contract completed	33.6%
Total Soil production for contract		Tons Ahead or Behind Schedule	1,651 MT
Since 6 Sep 93	32,045 MT	Days ahead or behind schedule	5 days
Since 6 Aug 93	33,636 MT		
Total Soil production for project	59,923 MT		

MT = metric tons

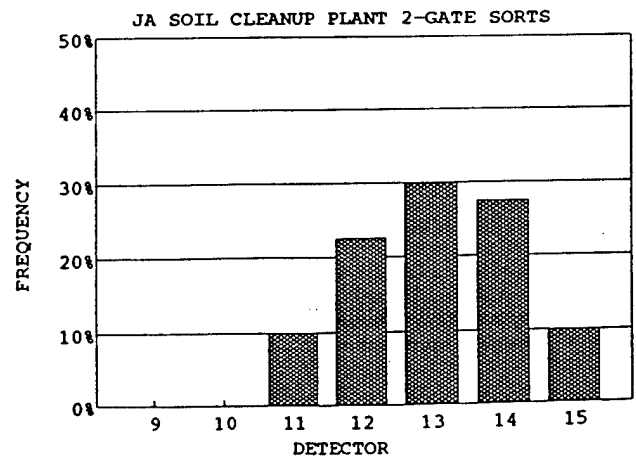
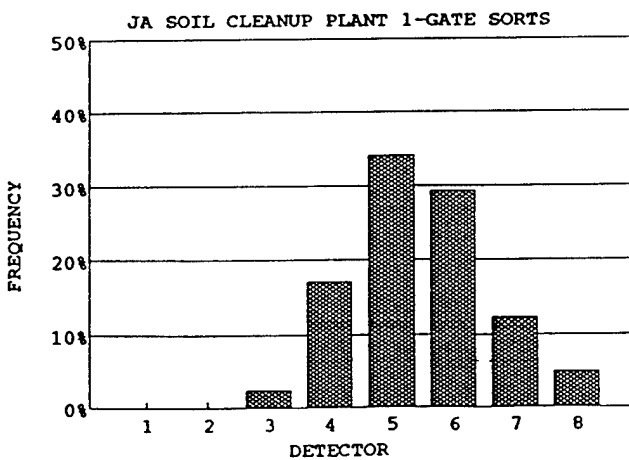
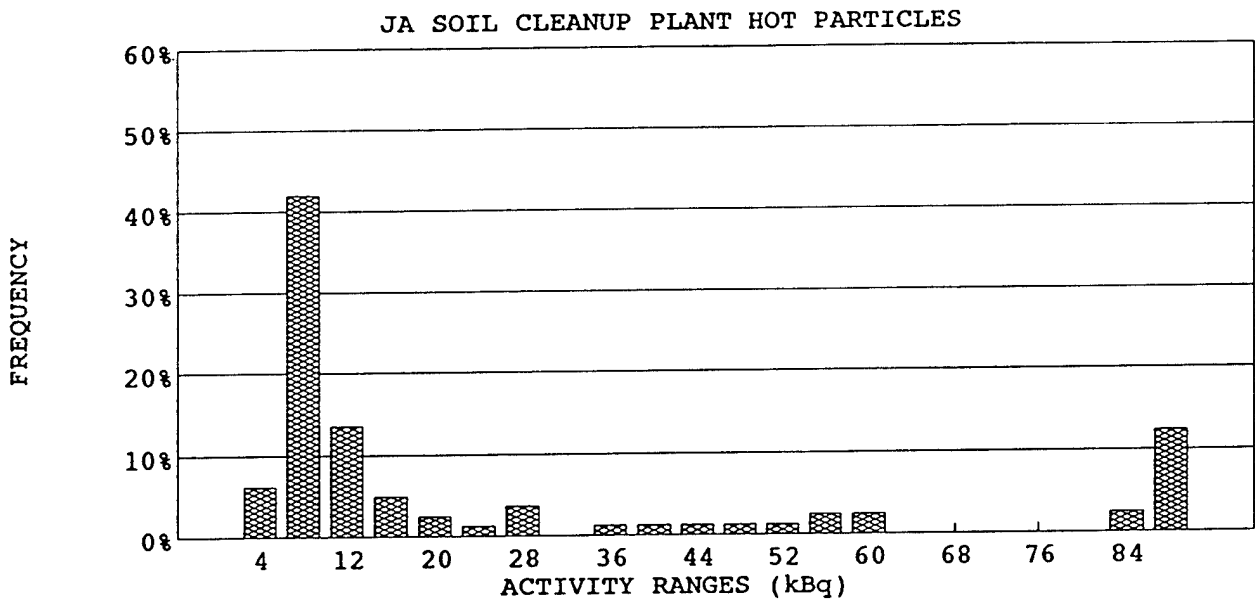
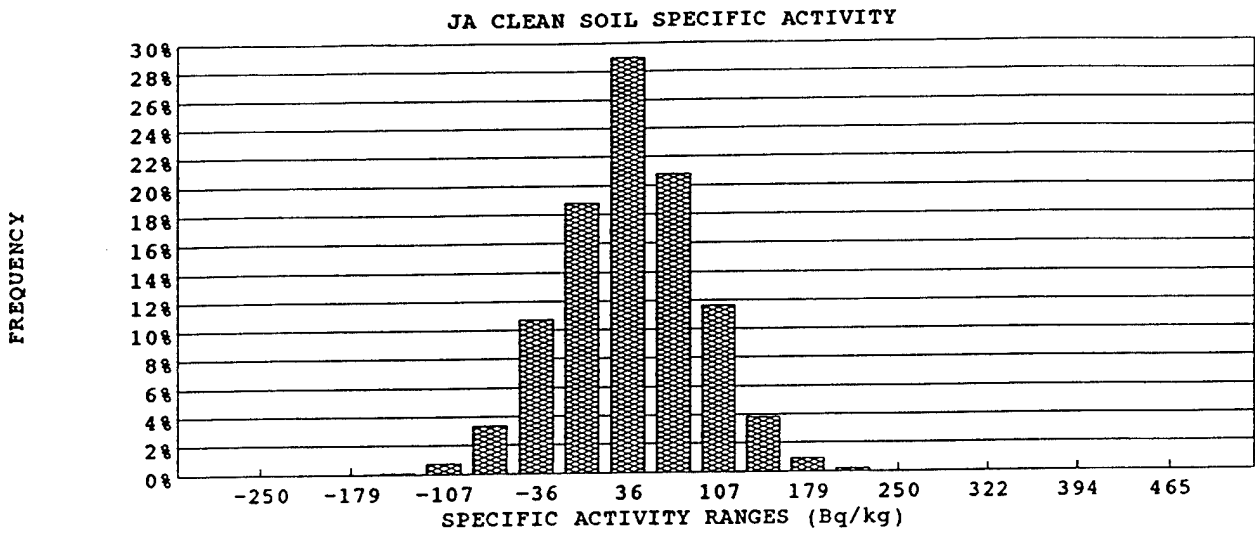
SORTER 1				10-Feb-94					
SORTER SOIL DENSITY			1.20 tons/m ³	BACKGROUND		0.68 ±	0.03 c/s		
SOIL		CONTAMINATED		CLEAN		TOTAL			
MASS TOTAL		0.2 tons		98.8 tons		99.0 tons			
MAXIMUM/SORT		4.2 kg		55.9 kg					
MINIMUM/SORT		0.7 kg		51.7 kg					
VOLUME IN-GROUND		0.2 yd ³		78.3 yd ³		78.5 yd ³			
WEIGHT RECOVERY (CLEAN/(HOT+CLEAN))		99.8%							
ACTIVITY		PARTICLE		DISPERSED + PARTICLE					
		HOT		CLEAN					
TOTAL		2,176 kBq		961 kBq		5,085 kBq			
MAXIMUM/SORT		106 kBq		74 kBq		16 kBq			
MINIMUM/SORT		3 kBq		0 Bq		-9 kBq			
SPECIFIC ACTIVITY				4,200 Bq/kg		51 Bq/kg			
SORTS									
20-SEC PROCESS PERIODS				1,771		UNEXP	PAUSE		
ALL 80 ELEMENTS SORT (MD>0&MND=0)				0		TIME	TIME		
NONE (AD=0 & MD=0 & MND>0)				1,565		None	None		
SOME (AD>0&0<MD<MNDmax&MND<MNDmax)				206					
UNEXPLAINED RECORDS				0					
0<AD<1kBq & MD>0				0					
AD=0 & MD>0				0					
AD<0 & MD >0				0					
2-SEC COUNT PERIODS				17,710					
2-SEC RECORDS WITH SORTS				164					
2-SEC RECORDS WITHOUT SORTS				17,546					
TOTAL PROCESS RECORDS (2-s SORTS and 20-s PERIODS)				1,935					
NONPROCESSING RECORDS (Test, calibration, etc)				3					
2-SEC SORT DETECTORS									
1 DET		125	76.2%	5 DET	0	0.0%			
2 DET		34	20.7%	6 DET	0	0.0%			
3 DET		5	3.0%	7 DET	0	0.0%			
4 DET		0	0.0%	8 DET	0	0.0%			
AVERAGE TIME BETWEEN 2-SEC SORTS				283.4 sec					
FREQUENCY DISTRIBUTIONS									
1-GATE SORTS			ACT_ND	NUM	SPEC_A	FREQ%	ACT_P	NUM	FREQ%
DET	SORTS	FREQ%	(Bq)	(#)	(Bq/kg)		(kBq)	(#)	
1	2	2.4%	-14000	0	-250	0.0%	4	7	4.3%
2	8	9.8%	-12000	0	-215	0.0%	8	87	53.0%
3	10	12.2%	-10000	0	-179	0.0%	12	22	13.4%
4	16	19.5%	-8000	4	-143	0.2%	16	13	7.9%
5	16	19.5%	-6000	8	-107	0.5%	20	9	5.5%
6	10	12.2%	-4000	41	-72	2.3%	24	7	4.3%
7	14	17.1%	-2000	144	-36	8.1%	28	5	3.0%
8	6	7.3%	0	204	0	11.5%	32	1	0.6%
TOTAL			2000	382	36	21.5%	36	0	0.0%
			4000	340	72	19.2%	40	5	3.0%
			6000	295	107	16.6%	44	0	0.0%
2-GATE SORTS			8000	172	143	9.7%	48	0	0.0%
DET	SORTS	FREQ%	10000	104	179	5.9%	52	0	0.0%
9	9	11.0%	12000	55	215	3.1%	56	0	0.0%
10	9	11.0%	14000	15	250	0.8%	60	2	1.2%
11	11	13.4%	16000	9	286	0.5%	64	2	1.2%
12	16	19.5%	18000	1	322	0.1%	68	0	0.0%
13	18	22.0%	20000	0	358	0.0%	72	0	0.0%
14	8	9.8%	22000	0	394	0.0%	76	2	1.2%
15	11	13.4%	24000	0	429	0.0%	80	0	0.0%
TOTAL			26000	0	465	0.0%	84	0	0.0%
			>28000	0	0	0.0%	>84	2	1.2%
			TOTAL	1,774			TOTAL	164	
EVENT TYPES			HPE	172	MPE	155	DISE	0	



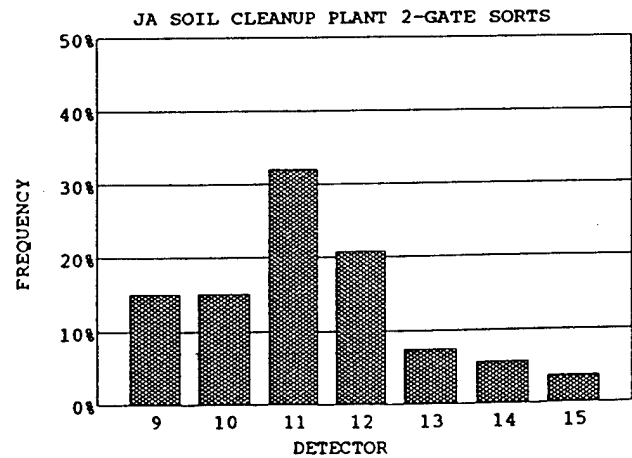
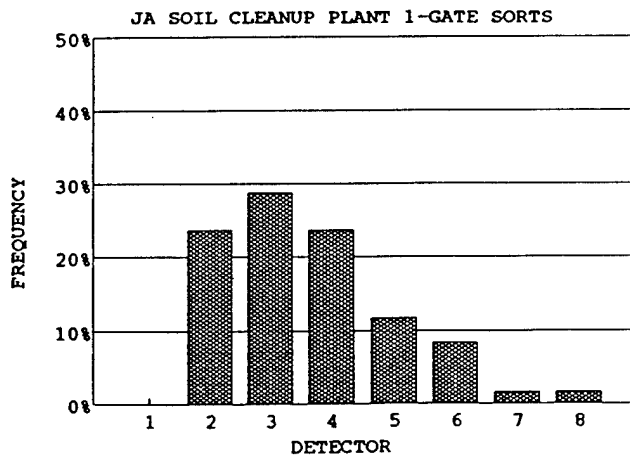
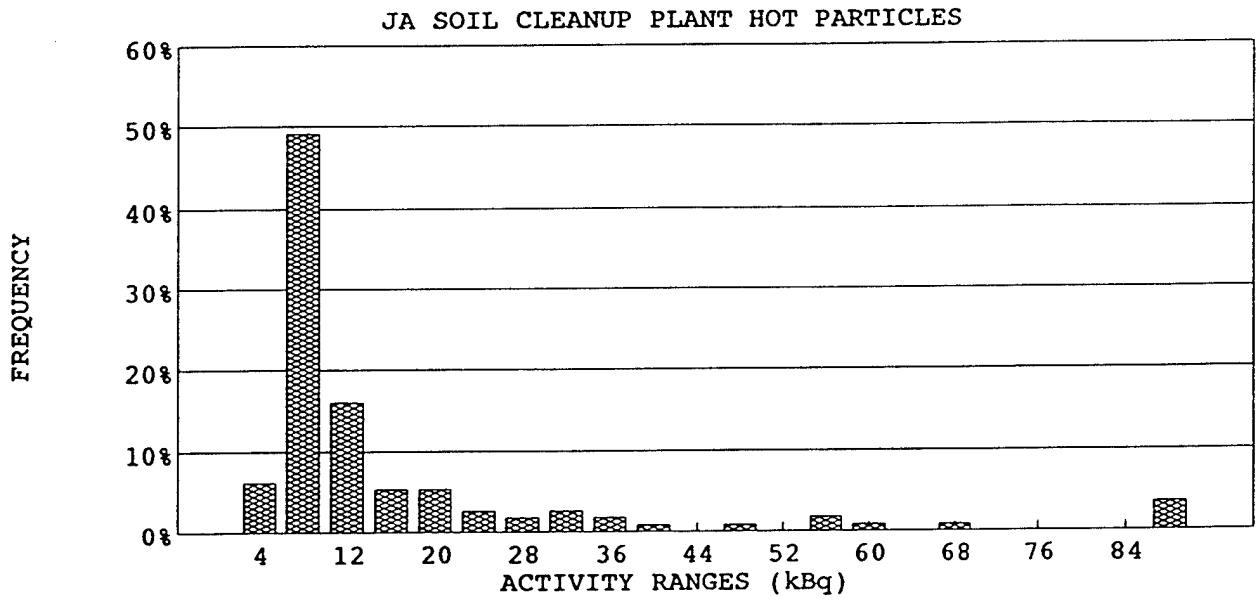
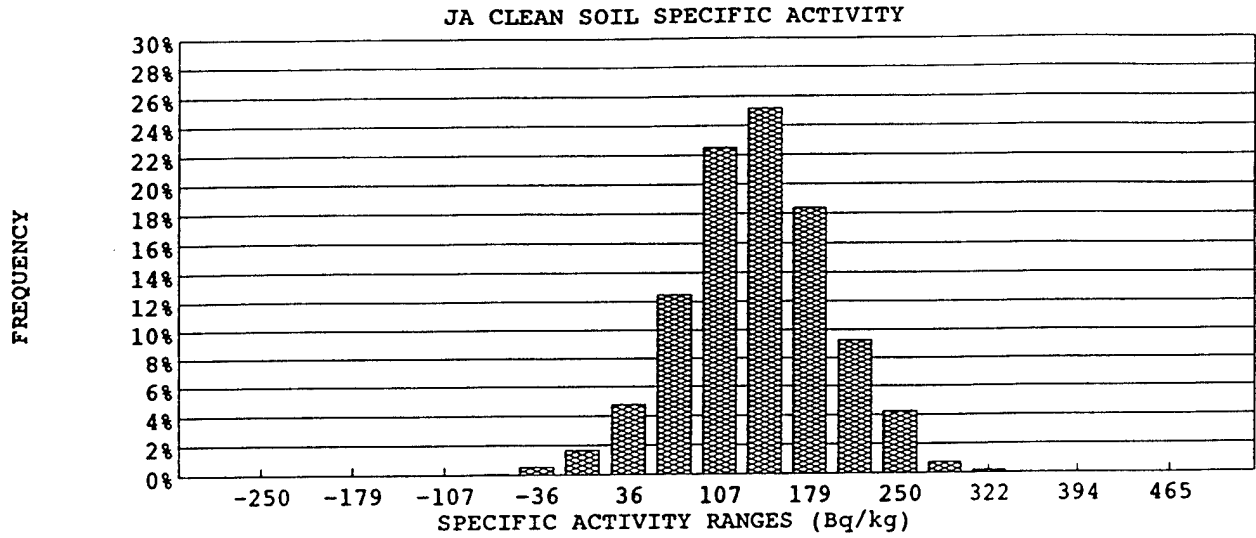
SORTER 2				10-Feb-94					
SORTER SOIL DENSITY		1.20 tons/m ³		BACKGROUND		0.79 ± 0.03 c/			
SOIL		CONTAMINATED		CLEAN		TOTAL			
MASS TOTAL		1.0 tons		97.8 tons		98.7 tons			
MAXIMUM/SORT		55.9 kg		55.9 kg					
MINIMUM/SORT		0.7 kg		51.0 kg					
VOLUME IN-GROUND		0.8 yd ³		77.5 yd ³		78.3 yd ³			
WEIGHT RECOVERY (CLEAN/(HOT+CLEAN))		99.0%							
ACTIVITY		PARTICLE		DISPERSED + PARTICLE					
				HOT		CLEAN			
TOTAL		1,501 kBq		1,885 kBq		4,952 kBq			
MAXIMUM/SORT		96 kBq		48 kBq		17 kBq			
MINIMUM/SORT		3 kBq		0 Bq		-8 kBq			
SPECIFIC ACTIVITY				1,972 Bq/kg		51 Bq/kg			
SORTS									
20-SEC PROCESS PERIODS				1,766		UNEXP PAUSE			
ALL 80 ELEMENTS SORT (MD>0&MND=0)				4		TIME TIME			
NONE (AD=0 & MD=0 & MND>0)				1,061		10:36 None			
SOME (AD>0&0<MD<MNDmax&MND<MNDmax)				701					
UNEXPLAINED RECORDS				0					
0<AD<1kBq & MD>0				1					
AD=0 & MD>0				0					
AD<0 & MD >0				0					
2-SEC COUNT PERIODS				17,660					
2-SEC RECORDS WITH SORTS				126					
2-SEC RECORDS WITHOUT SORTS				17,534					
TOTAL PROCESS RECORDS (2-s SORTS and 20-s PERIODS)				1,892					
NONPROCESSING RECORDS (Test, calibration, etc)				7					
2-SEC SORT DETECTORS									
1 DET		96	76.2%	5 DET	0	0.0%			
2 DET		27	21.4%	6 DET	0	0.0%			
3 DET		3	2.4%	7 DET	0	0.0%			
4 DET		0	0.0%	8 DET	0	0.0%			
AVERAGE TIME BETWEEN 2-SEC SORTS				367.9 sec					
FREQUENCY DISTRIBUTIONS									
1-GATE SORTS			ACT_ND	NUM	SPEC_A	FREQ%	ACT_P	NUM	FREQ%
DET	SORTS	FREQ%	(Bq)	(#)	(Bq/kg)		(kBq)	(#)	
1	1	1.5%	-14000	2	-250	0.1%	4	11	8.7%
2	11	16.4%	-12000	1	-215	0.1%	8	64	50.8%
3	9	13.4%	-10000	1	-179	0.1%	12	22	17.5%
4	10	14.9%	-8000	2	-143	0.1%	16	8	6.3%
5	15	22.4%	-6000	7	-107	0.4%	20	4	3.2%
6	9	13.4%	-4000	48	-72	2.7%	24	4	3.2%
7	11	16.4%	-2000	133	-36	7.5%	28	1	0.8%
8	1	1.5%	0	283	0	16.0%	32	3	2.4%
TOTAL	67		2000	312	36	17.6%	36	0	0.0%
			4000	337	72	19.0%	40	1	0.8%
			6000	276	107	15.6%	44	1	0.8%
2-GATE SORTS			8000	176	143	9.9%	48	2	1.6%
DET	SORTS	FREQ%							
9	4	6.8%	10000	119	179	6.7%	52	0	0.0%
10	8	13.6%	12000	42	215	2.4%	56	3	2.4%
11	8	13.6%	14000	23	250	1.3%	60	0	0.0%
12	12	20.3%	16000	8	286	0.5%	64	0	0.0%
13	11	18.6%	18000	3	322	0.2%	68	0	0.0%
14	11	18.6%	20000	0	358	0.0%	72	1	0.8%
15	5	8.5%	22000	0	394	0.0%	76	0	0.0%
TOTAL	59		24000	0	429	0.0%	80	0	0.0%
			26000	0	465	0.0%	84	0	0.0%
			>28000	0	0	0.0%	>84	1	0.8%
			TOTAL	1,773			TOTAL	126	
EVENT TYPES		HPE	133	MPE	923	DISE	310		



SORTER 3				10-Feb-94					
SORTER SOIL DENSITY		1.20 tons/m³		BACKGROUND		0.63 ± 0.01 cps			
SOIL		CONTAMINATED		CLEAN		TOTAL			
MASS TOTAL		0.2 tons		98.3 tons		98.6 tons			
MAXIMUM/SORT		10.5 kg		55.9 kg					
MINIMUM/SORT		0.7 kg		45.4 kg					
VOLUME IN-GROUND		0.2 yd³		78.0 yd³		78.1 yd³			
WEIGHT RECOVERY (CLEAN/(HOT+CLEAN))		99.8%							
ACTIVITY		PARTICLE		DISPERSED + PARTICLE					
				HOT		CLEAN			
TOTAL		24,569 kBq		8,120 kBq		2,019 kBq			
MAXIMUM/SORT		10,728 kBq		7,183 kBq		12 kBq			
MINIMUM/SORT		3 kBq		0 Bq		-9 kBq			
SPECIFIC ACTIVITY				38,034 Bq/kg		21 Bq/kg			
SORTS									
20-SEC PROCESS PERIODS				1,763					
ALL 80 ELEMENTS SORT (MD>0&MND=0)				0					
NONE (AD=0 & MD=0 & MND>0)				1,535					
SOME (AD>0&0<MD<MNDmax&MND<MNDmax)				228					
UNEXPLAINED RECORDS				0					
0<AD<1kBq & MD>0				1					
AD=0 & MD>0				0					
AD<0 & MD >0				0					
2-SEC COUNT PERIODS				17,630					
2-SEC RECORDS WITH SORTS				81					
2-SEC RECORDS WITHOUT SORTS				17,549					
TOTAL PROCESS RECORDS (2-s SORTS and 20-s PERIODS)				1,844					
NONPROCESSING RECORDS (Test, calibration, etc)				4					
2-SEC SORT DETECTORS									
1 DET		55	67.9%	5 DET	1	1.2%			
2 DET		19	23.5%	6 DET	0	0.0%			
3 DET		4	4.9%	7 DET	0	0.0%			
4 DET		2	2.5%	8 DET	0	0.0%			
AVERAGE TIME BETWEEN 2-SEC SORTS				641.1 sec					
FREQUENCY DISTRIBUTIONS									
1-GATE SORTS			ACT_ND	NUM	SPEC_A	FREQ%	ACT_P	NUM	FREQ%
DET	SORTS	FREQ%	(Bq)	(#)	(Bq/kg)		(kBq)	(#)	
1	0	0.0%	-14000	0	-250	0.0%	4	5	6.2%
2	0	0.0%	-12000	0	-215	0.0%	8	34	42.0%
3	1	2.4%	-10000	0	-179	0.0%	12	11	13.6%
4	7	17.1%	-8000	1	-143	0.1%	16	4	4.9%
5	14	34.1%	-6000	13	-107	0.7%	20	2	2.5%
6	12	29.3%	-4000	59	-72	3.3%	24	1	1.2%
7	5	12.2%	-2000	189	-36	10.7%	28	3	3.7%
8	2	4.9%	0	332	0	18.8%	32	0	0.0%
TOTAL	41		2000	512	36	29.0%	36	1	1.2%
			4000	367	72	20.8%	40	1	1.2%
			6000	206	107	11.7%	44	1	1.2%
2-GATE SORTS			8000	68	143	3.8%	48	1	1.2%
9	0	0.0%	10000	16	179	0.9%	52	1	1.2%
10	0	0.0%	12000	4	215	0.2%	56	2	2.5%
11	4	10.0%	14000	0	250	0.0%	60	2	2.5%
12	9	22.5%	16000	0	286	0.0%	64	0	0.0%
13	12	30.0%	18000	0	322	0.0%	68	0	0.0%
14	11	27.5%	20000	0	358	0.0%	72	0	0.0%
15	4	10.0%	22000	0	394	0.0%	76	0	0.0%
TOTAL	40		24000	0	429	0.0%	80	0	0.0%
			26000	0	465	0.0%	84	2	2.5%
			>28000	0	0	0.0%	>84	10	12.3%
			TOTAL	1,767			TOTAL	81	
EVENT TYPES		HPE	78	MPE	227	DISE	0		



SORTER 4				10-Feb-94					
SORTER SOIL DENSITY			1.20 tons/m³	BACKGROUND		0.60 ±	0.02 c/s		
SOIL			CONTAMINATED	CLEAN	TOTAL				
MASS TOTAL			0.4 tons	97.1 tons	97.4 tons				
MAXIMUM/SORT			4.2 kg	55.9 kg					
MINIMUM/SORT			0.7 kg	51.7 kg					
VOLUME IN-GROUND			0.3 yd³	77.0 yd³	77.2 yd³				
WEIGHT RECOVERY (CLEAN/(HOT+CLEAN))			99.6%						
ACTIVITY			DISPERSED + PARTICLE						
			PARTICLE	HOT	CLEAN				
TOTAL			2,132 kBq	1,341 kBq	11,635 kBq				
MAXIMUM/SORT			395 kBq	254 kBq	18 kBq				
MINIMUM/SORT			3 kBq	0 Bq	-4 kBq				
SPECIFIC ACTIVITY				3,809 Bq/kg	120 Bq/kg				
SORTS									
20-SEC PROCESS PERIODS				1,743	UNEXP	PAUSE			
ALL 80 ELEMENTS SORT (MD>0&MND=0)				0	TIME	TIME			
NONE (AD=0 & MD=0 & MND>0)				1,358	None	None			
SOME (AD>0&0<MD<MNDmax&MND<MNDmax)				385					
UNEXPLAINED RECORDS				0					
0<AD<1kBq & MD>0				0					
AD=0 & MD>0				0					
AD<0 & MD >0				0					
2-SEC COUNT PERIODS				17,430					
2-SEC RECORDS WITH SORTS				112					
2-SEC RECORDS WITHOUT SORTS				17,318					
TOTAL PROCESS RECORDS (2-s SORTS and 20-s PERIODS)				1,855					
NONPROCESSING RECORDS (Test, calibration, etc)				2					
2-SEC SORT DETECTORS									
1 DET		80	71.4%	5 DET	1	0.9%			
2 DET		26	23.2%	6 DET	0	0.0%			
3 DET		4	3.6%	7 DET	0	0.0%			
4 DET		1	0.9%	8 DET	0	0.0%			
AVERAGE TIME BETWEEN 2-SEC SORTS				435.8 sec					
FREQUENCY DISTRIBUTIONS									
1-GATE SORTS			ACT_ND	NUM	SPEC_A	FREQ%	ACT_P	NUM	FREQ%
DET	SORTS	FREQ%	(Bq)	(#)	(Bq/kg)		(kBq)	(#)	
1	0	0.0%	-14000	0	-250	0.0%	4	7	6.3%
2	14	23.7%	-12000	0	-215	0.0%	8	55	49.1%
3	17	28.8%	-10000	0	-179	0.0%	12	18	16.1%
4	14	23.7%	-8000	0	-143	0.0%	16	6	5.4%
5	7	11.9%	-6000	0	-107	0.0%	20	6	5.4%
6	5	8.5%	-4000	1	-72	0.1%	24	3	2.7%
7	1	1.7%	-2000	9	-36	0.5%	28	2	1.8%
8	1	1.7%	0	29	0	1.7%	32	3	2.7%
TOTAL	59		2000	83	36	4.8%	36	2	1.8%
2-GATE SORTS			4000	218	72	12.5%	40	1	0.9%
DET	SORTS	FREQ%	6000	393	107	22.5%	44	0	0.0%
9	8	15.1%	8000	439	143	25.2%	48	1	0.9%
10	8	15.1%	10000	321	179	18.4%	52	0	0.0%
11	17	32.1%	12000	162	215	9.3%	56	2	1.8%
12	11	20.8%	14000	74	250	4.2%	60	1	0.9%
13	4	7.5%	16000	13	286	0.7%	64	0	0.0%
14	3	5.7%	18000	3	322	0.2%	68	1	0.9%
15	2	3.8%	20000	0	358	0.0%	72	0	0.0%
TOTAL	53		22000	0	394	0.0%	76	0	0.0%
			24000	0	429	0.0%	80	0	0.0%
			26000	0	465	0.0%	84	0	0.0%
			>28000	0	0	0.0%	>84	4	3.6%
			TOTAL	1,745			TOTAL	112	
EVENT TYPES		HPE	107	MPE	396	DISE	0		



WORK HISTORY - JA SOIL CLEANUP PLANT

11-Feb-94

WORK DAY START	06:00	AM	WORK DAY END	16:30	PM
LUNCH START	11:00	AM	TIME LOST DURING LUNCH	0.5	HR

	SORTER 1	SORTER 2	SORTER 3	SORTER 4	TOTAL (sorter hours)
WORK HOURS	10.0 hr	10.0 hr	10.0 hr	10.0 hr	40.0 hr
SORTER AVAILABLE HOURS	0.0 hr	0.0 hr	0.0 hr	0.0 hr	0.0 hr
SORTER START-UP	NA	NA	NA	NA	
START SOIL PROCESSING	NA	NA	NA	NA	
TIME REQUIRED TO START-UP	0.0 hr	0.0 hr	0.0 hr	0.0 hr	0.0 hr
SORTER SHUT-DOWN	NA	NA	NA	NA	
END SOIL PROCESSING	NA	NA	NA	NA	
TIME REQUIRED TO SHUT DOWN	0.0 hr	0.0 hr	0.0 hr	0.0 hr	0.0 hr
ACTUAL PROCESS HOURS	0.0 hr	0.0 hr	0.0 hr	0.0 hr	0.0 hr
DOWN-TIME	0.0 hr	0.0 hr	0.0 hr	0.0 hr	0.0 hr
SYSTEM PAUSE	0.0 hr	0.0 hr	0.0 hr	0.0 hr	0.0 hr
SORTER NONAVAILABLE TIME	10.0 hr	10.0 hr	10.0 hr	10.0 hr	40.0 hr
AUTHORIZED DELAY TIME	10.0 hr	10.0 hr	10.0 hr	10.0 hr	40.0 hr
PLANT PERFORMANCE					NA
PRODUCTIVITY					0.0%

PRODUCTIVITY

Date	11-Feb-94	Excused Delays for day (sorter-hrs)	40 hr
Contract day (from 6 Sep)	125	Excused delays for contract (sorter-hrs)	1,641 hr
Current Contract week	21	Excused delay days (plant-days)	41 days
		Excused delay months (plant-month)	1.58 months
Soil production for Day	0 MT		
Cumulative Soil Production for Week	1,560 MT	Percent of contract completed	33.6%
Total Soil production for contract		Tons Ahead or Behind Schedule	1,651 MT
Since 6 Sep 93	32,045 MT	Days ahead or behind schedule	5 days
Since 6 Aug 93	33,636 MT		
Total Soil production for project	59,923 MT		

MT = metric tons

WORK HISTORY - JA SOIL CLEANUP PLANT

12-Feb-94

WORK DAY START	06:00	AM	WORK DAY END	16:30	PM
LUNCH START	11:00	AM	TIME LOST DURING LUNCH	0.5	HR

	SORTER 1	SORTER 2	SORTER 3	SORTER 4	TOTAL (sorter hours)
WORK HOURS	10.0 hr	10.0 hr	10.0 hr	10.0 hr	40.0 hr
SORTER AVAILABLE HOURS	0.0 hr	0.0 hr	0.0 hr	0.0 hr	0.0 hr
SORTER START-UP	NA	NA	NA	NA	
START SOIL PROCESSING	NA	NA	NA	NA	
TIME REQUIRED TO START-UP	0.0 hr	0.0 hr	0.0 hr	0.0 hr	0.0 hr
SORTER SHUT-DOWN	NA	NA	NA	NA	
END SOIL PROCESSING	NA	NA	NA	NA	
TIME REQUIRED TO SHUT DOWN	0.0 hr	0.0 hr	0.0 hr	0.0 hr	0.0 hr
ACTUAL PROCESS HOURS	0.0 hr	0.0 hr	0.0 hr	0.0 hr	0.0 hr
DOWN-TIME	0.0 hr	0.0 hr	0.0 hr	0.0 hr	0.0 hr
SYSTEM PAUSE	0.0 hr	0.0 hr	0.0 hr	0.0 hr	0.0 hr
SORTER NONAVAILABLE TIME	10.0 hr	10.0 hr	10.0 hr	10.0 hr	40.0 hr
AUTHORIZED DELAY TIME	10.0 hr	10.0 hr	10.0 hr	10.0 hr	40.0 hr
PLANT PERFORMANCE					NA
PRODUCTIVITY					0.0%

PRODUCTIVITY

Date	12-Feb-94	Excused Delays for day (sorter-hrs)	40 hr
Contract day (from 6 Sep)	126	Excused delays for contract (sorter-hrs)	1,681 hr
Current Contract week	21	Excused delay days (plant-days)	42 days
		Excused delay months (plant-month)	1.62 months
Soil production for Day	0 MT		
Cumulative Soil Production for Week	1,560 MT	Percent of contract completed	33.6%
Total Soil production for contract		Tons Ahead or Behind Schedule	1,651 MT
Since 6 Sep 93	32,045 MT	Days ahead or behind schedule	5 days
Since 6 Aug 93	33,636 MT		
Total Soil production for project	59,923 MT		

MT = metric tons

WORK HISTORY - JA SOIL CLEANUP PLANT

14-Feb-94

WORK DAY START	06:00 AM	WORK DAY END	16:30 PM
LUNCH START	11:00 AM	TIME LOST DURING LUNCH	0.0 HR

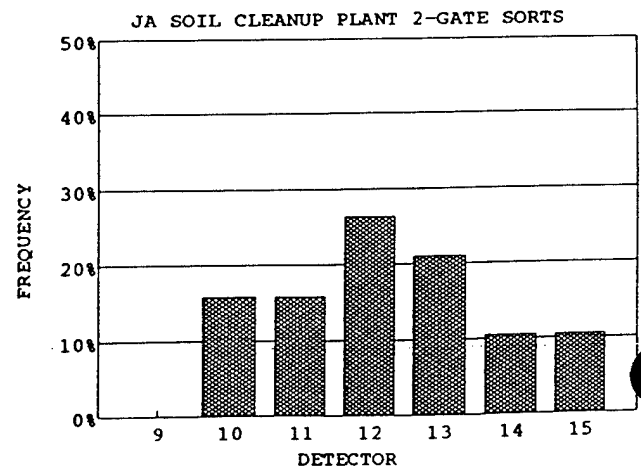
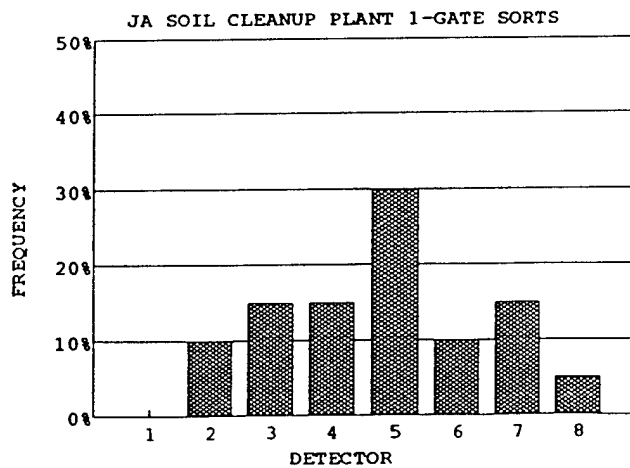
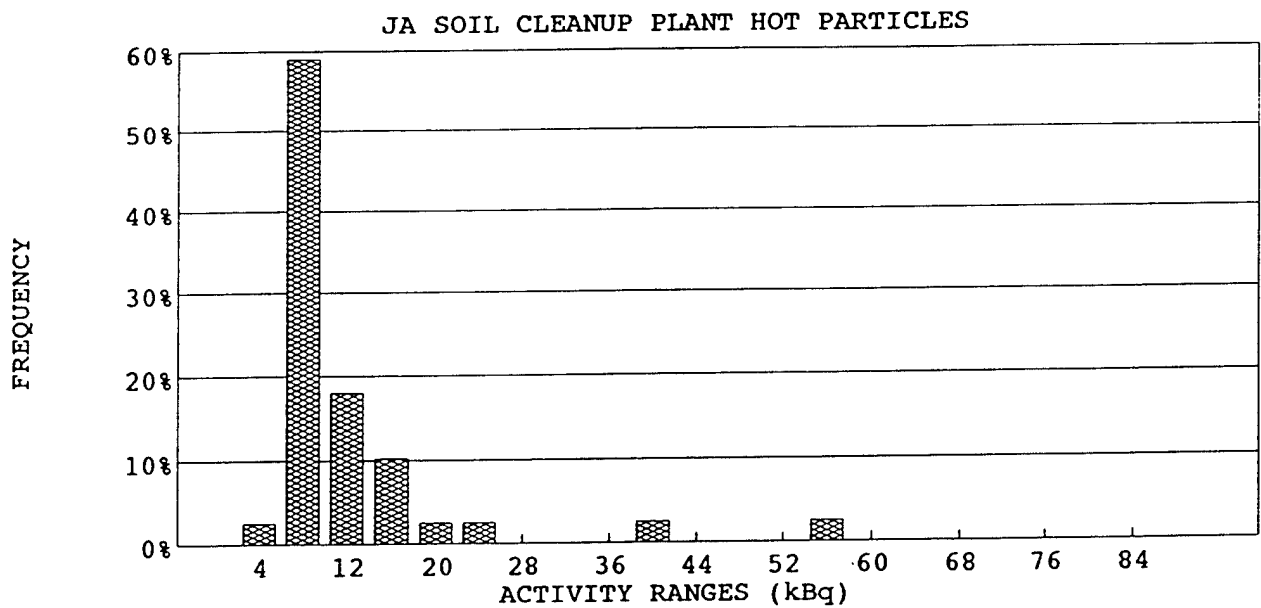
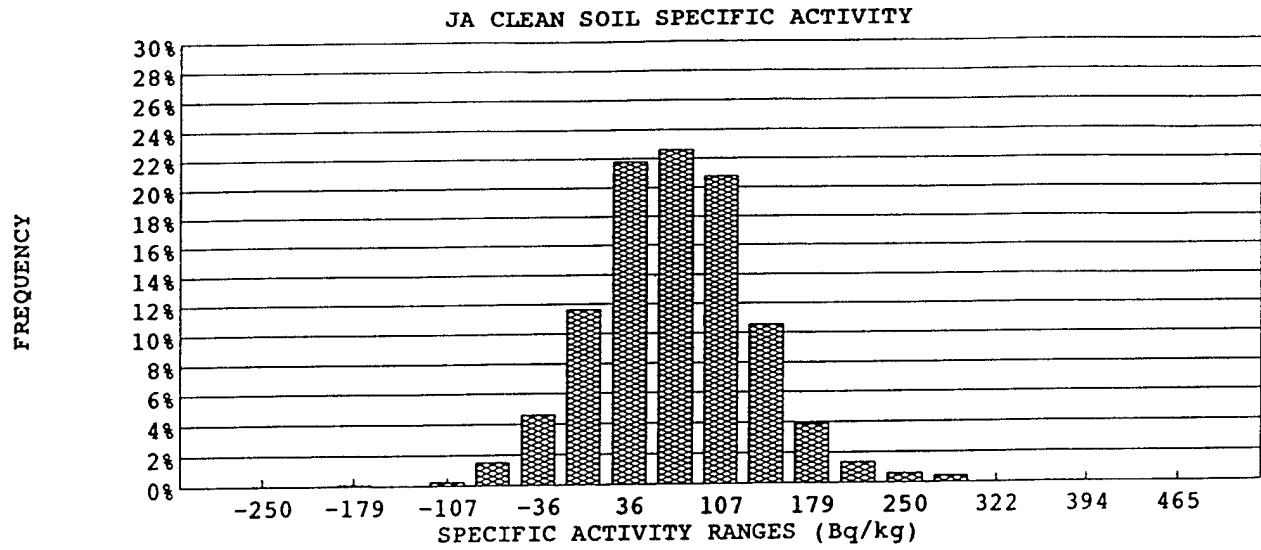
	SORTER 1	SORTER 2	SORTER 3	SORTER 4	TOTAL (sorter hours)
WORK HOURS	10.5 hr	10.5 hr	10.5 hr	10.5 hr	42.0 hr
SORTER AVAILABLE HOURS	7.5 hr	7.5 hr	7.5 hr	7.5 hr	30.0 hr
SORTER START-UP	09:00	09:00	09:00	09:00	
START SOIL PROCESSING	09:35	09:35	09:39	09:38	
TIME REQUIRED TO START-UP	0.6 hr	0.6 hr	0.7 hr	0.6 hr	2.5 hr
SORTER SHUT-DOWN	16:30	16:30	16:30	16:30	
END SOIL PROCESSING	15:53	15:51	15:37	16:27	
TIME REQUIRED TO SHUT DOWN	0.6 hr	0.6 hr	0.9 hr	0.0 hr	2.2 hr
ACTUAL PROCESS HOURS	6.3 hr	6.3 hr	3.6 hr	6.7 hr	22.8 hr
DOWN-TIME	1.2 hr	1.2 hr	3.9 hr	0.8 hr	7.2 hr
SYSTEM PAUSE	0.0 hr	0.0 hr	2.4 hr	0.1 hr	2.6 hr
SORTER NONAVAILABLE TIME	3.0 hr	3.0 hr	3.0 hr	3.0 hr	12.0 hr
AUTHORIZED DELAY TIME	3.0 hr	3.0 hr	3.0 hr	3.0 hr	12.0 hr
PLANT PERFORMANCE					76.1%
PRODUCTIVITY					54.4%

PRODUCTIVITY

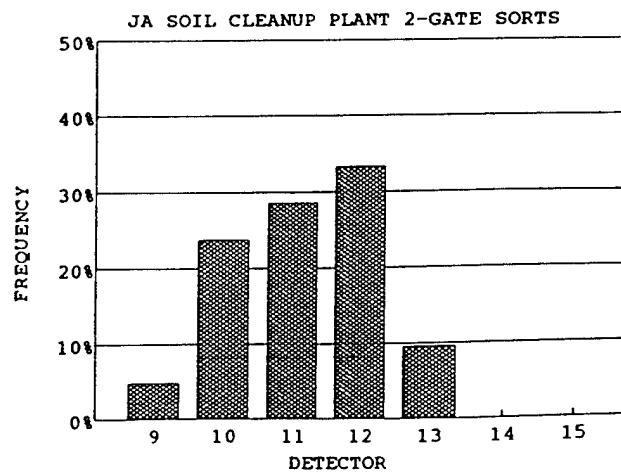
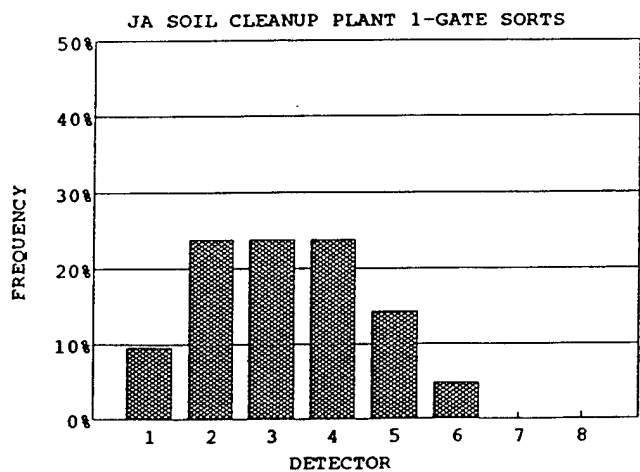
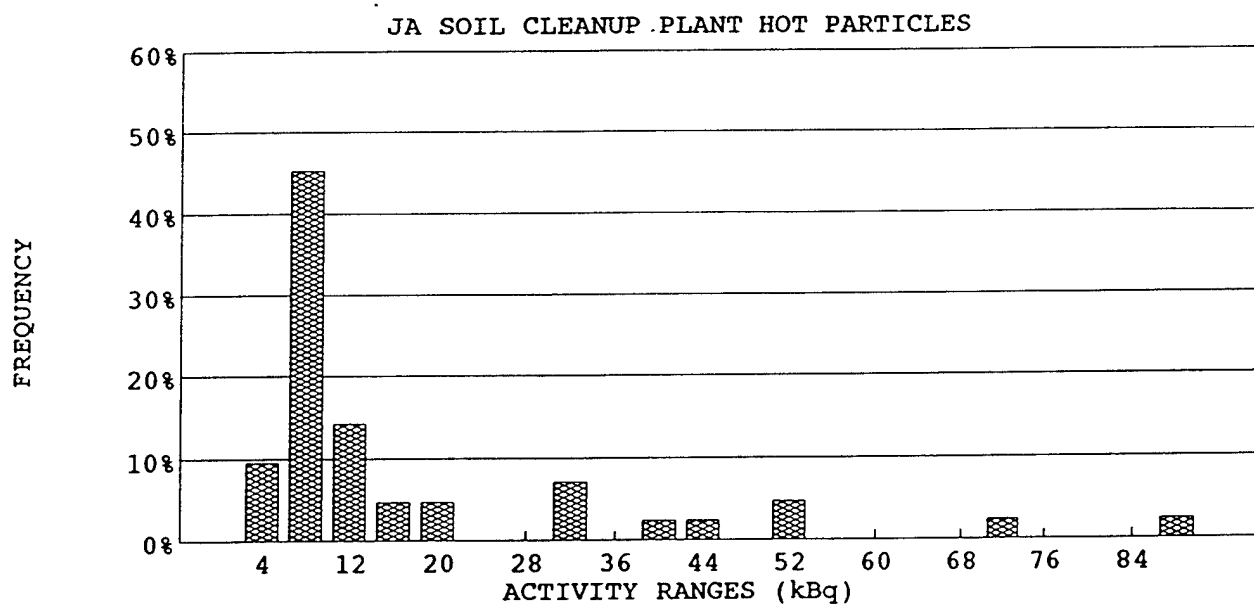
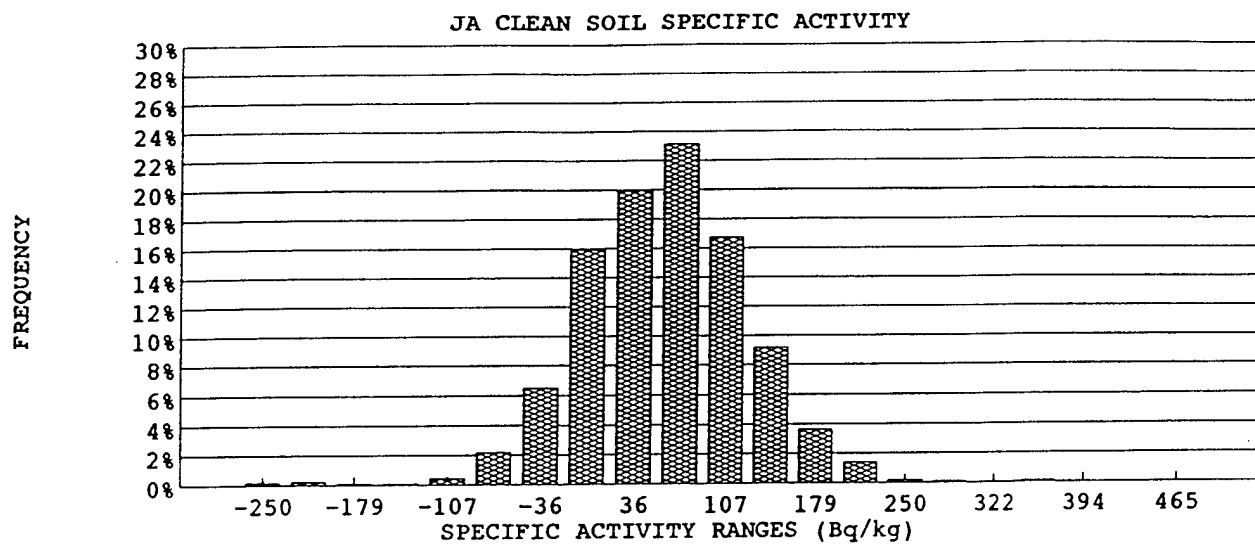
Date	14-Feb-94	Excused Delays for day (sorter-hrs)	12 hr
Contract day (from 6 Sep)	127	Excused delays for contract (sorter-hrs)	1,693 hr
Current Contract week	22	Excused delay days (plant-days)	42 days
		Excused delay months (plant-month)	1.63 months
Soil production for Day	232 MT		
Cumulative Soil Production for Week	232 MT	Percent of contract completed	33.9%
Total Soil production for contract		Tons Ahead or Behind Schedule	1,661 MT
Since 6 Sep 93	32,277 MT	Days ahead or behind schedule	5 days
Since 6 Aug 93	33,868 MT		
Total Soil production for project	60,155 MT		

MT = metric tons

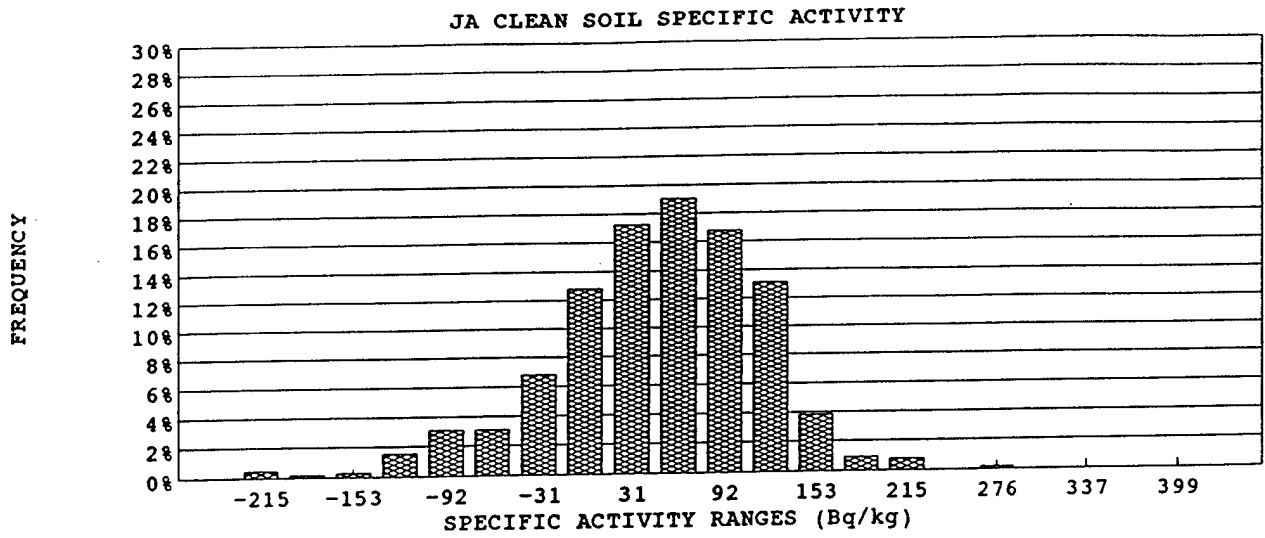
SORTER 1				14-Feb-94					
SORTER SOIL DENSITY		1.20 tons/m ³		BACKGROUND		0.66 ± 0.02 c/s			
SOIL		CONTAMINATED		CLEAN		TOTAL			
MASS TOTAL		0.1 tons		63.3 tons		63.3 tons			
MAXIMUM/SORT		2.1 kg		55.9 kg					
MINIMUM/SORT		0.7 kg		53.8 kg					
VOLUME IN-GROUND		0.1 yd ³		50.1 yd ³		50.2 yd ³			
WEIGHT RECOVERY (CLEAN/(HOT+CLEAN))		99.9%							
ACTIVITY		PARTICLE		DISPERSED + PARTICLE					
				HOT		CLEAN			
TOTAL		400 kBq		269 kBq		3,373 kBq			
MAXIMUM/SORT		53 kBq		34 kBq		15 kBq			
MINIMUM/SORT		4 kBq		0 Bq		-7 kBq			
SPECIFIC ACTIVITY				3,202 Bq/kg		53 Bq/kg			
SORTS									
20-SEC PROCESS PERIODS				1,133		UNEXP PAUSE			
ALL 80 ELEMENTS SORT (MD>0&MND=0)				0		TIME TIME			
NONE (AD=0 & MD=0 & MND>0)				1,043		None None			
SOME (AD>0&0<MD<MNDmax&MND<MNDmax)				90					
UNEXPLAINED RECORDS				0					
0<AD<1kBq & MD>0				0					
AD=0 & MD>0				0					
AD<0 & MD >0				0					
2-SEC COUNT PERIODS				11,330					
2-SEC RECORDS WITH SORTS				39					
2-SEC RECORDS WITHOUT SORTS				11,291					
TOTAL PROCESS RECORDS (2-s SORTS and 20-s PERIODS)				1,172					
NONPROCESSING RECORDS (Test, calibration, etc)				4					
2-SEC SORT DETECTORS									
1 DET	30	76.9%	5 DET	0	0.0%				
2 DET	9	23.1%	6 DET	0	0.0%				
3 DET	0	0.0%	7 DET	0	0.0%				
4 DET	0	0.0%	8 DET	0	0.0%				
AVERAGE TIME BETWEEN 2-SEC SORTS				755.3 sec					
FREQUENCY DISTRIBUTIONS									
1-GATE SORTS		ACT_ND	NUM	SPEC_A	FREQ%	ACT_P	NUM	FREQ%	
DET	SORTS	(Bq)	(#)	(Bq/kg)		(kBq)	(#)		
1	0	0.0%	-14000	0	-250	0.0%	4	1	2.6%
2	2	10.0%	-12000	0	-215	0.0%	8	23	59.0%
3	3	15.0%	-10000	1	-179	0.1%	12	7	17.9%
4	3	15.0%	-8000	0	-143	0.0%	16	4	10.3%
5	6	30.0%	-6000	3	-107	0.3%	20	1	2.6%
6	2	10.0%	-4000	17	-72	1.5%	24	1	2.6%
7	3	15.0%	-2000	52	-36	4.6%	28	0	0.0%
8	1	5.0%	0	132	0	11.6%	32	0	0.0%
TOTAL	20		2000	248	36	21.8%	36	0	0.0%
			4000	257	72	22.6%	40	1	2.6%
2-GATE SORTS		6000	236	107	20.8%	44	0	0.0%	
DET	SORTS	FREQ%	8000	120	143	10.6%	48	0	0.0%
9	0	0.0%	10000	44	179	3.9%	52	0	0.0%
10	3	15.8%	12000	15	215	1.3%	56	1	2.6%
11	3	15.8%	14000	7	250	0.6%	60	0	0.0%
12	5	26.3%	16000	5	286	0.4%	64	0	0.0%
13	4	21.1%	18000	0	322	0.0%	68	0	0.0%
14	2	10.5%	20000	0	358	0.0%	72	0	0.0%
15	2	10.5%	22000	0	394	0.0%	76	0	0.0%
TOTAL	19		24000	0	429	0.0%	80	0	0.0%
			26000	0	465	0.0%	84	0	0.0%
			>28000	0	0	0.0%	>84	0	0.0%
		TOTAL	1,137			TOTAL	39		
EVENT TYPES		HPE	40	MPE	80	DISE	0		



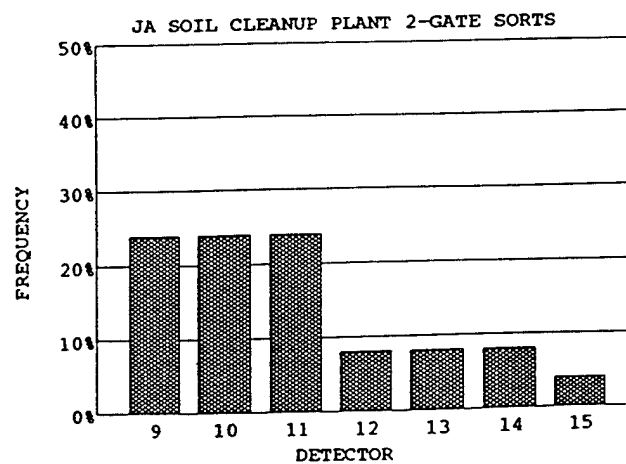
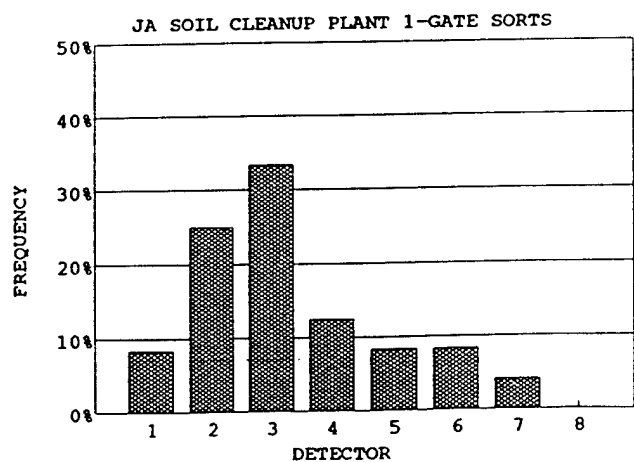
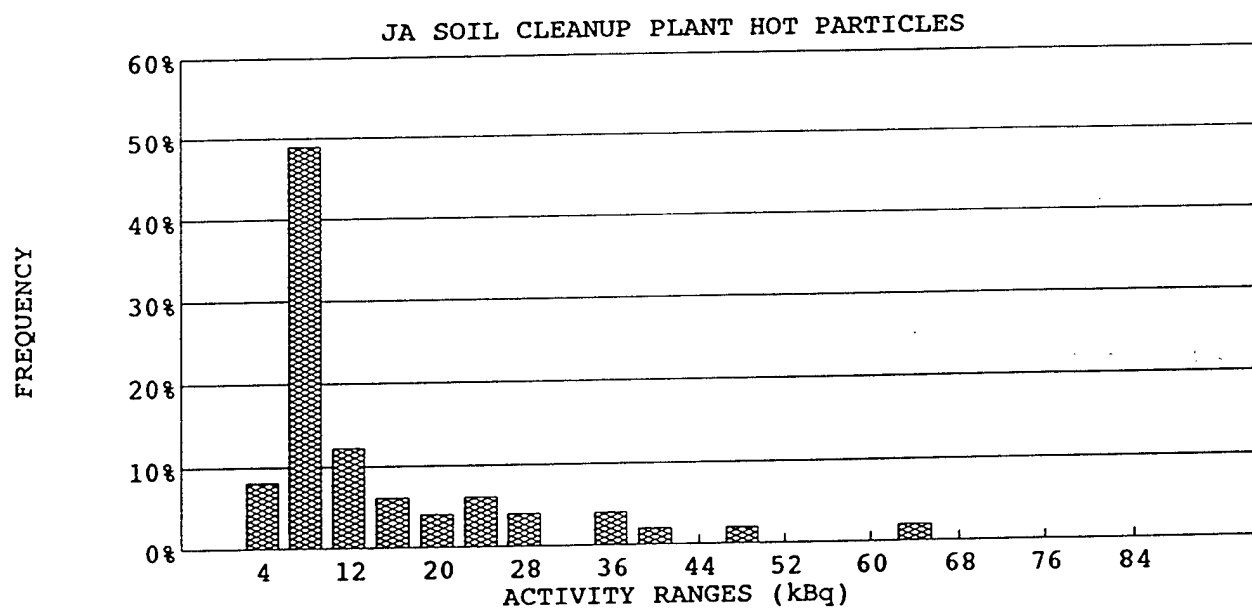
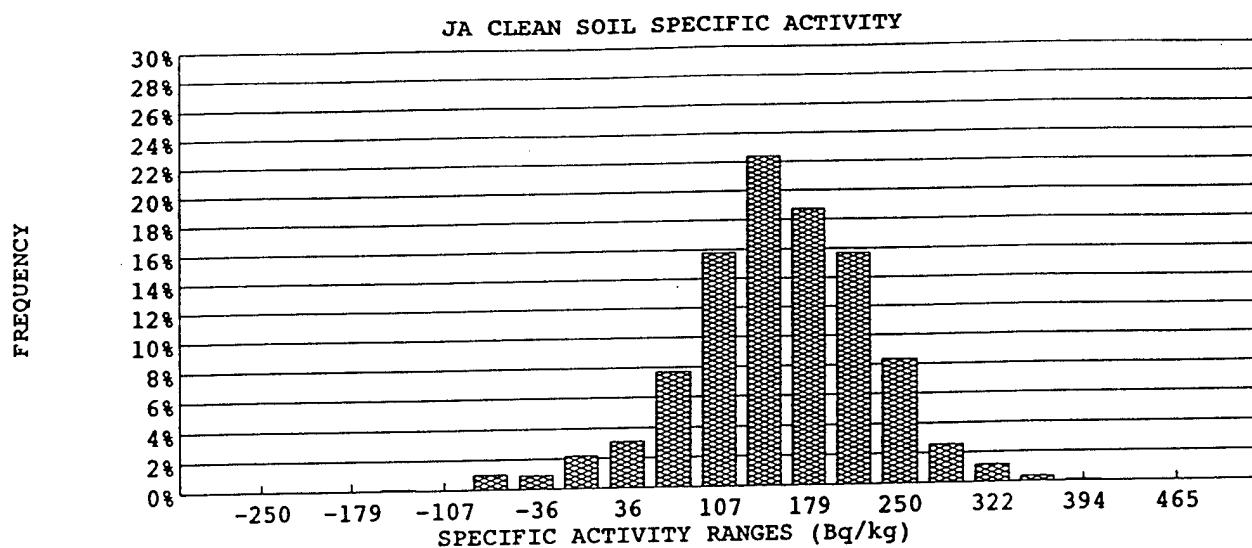
SORTER 2				14-Feb-94					
SORTER SOIL DENSITY			1.20 tons/m ³	BACKGROUND		0.76 ±	0.02 c/s		
SOIL				CONTAMINATED	CLEAN	TOTAL			
MASS TOTAL				0.2 tons	62.9 tons	63.1 tons			
MAXIMUM/SORT				2.8 kg	55.9 kg				
MINIMUM/SORT				0.7 kg	53.1 kg				
VOLUME IN-GROUND				0.1 yd ³	49.9 yd ³	50.0 yd ³			
WEIGHT RECOVERY (CLEAN/(HOT+CLEAN))				99.7%					
ACTIVITY				DISPERSED + PARTICLE					
				PARTICLE	HOT	CLEAN			
TOTAL				677 kBq	515 kBq	2,746 kBq			
MAXIMUM/SORT				93 kBq	61 kBq	18 kBq			
MINIMUM/SORT				4 kBq	0 Bq	-8 kBq			
SPECIFIC ACTIVITY					3,129 Bq/kg	44 Bq/kg			
SORTS									
20-SEC PROCESS PERIODS					1,128	UNEXP	PAUSE		
ALL 80 ELEMENTS SORT (MD>0&MND=0)				0		TIME	TIME		
NONE (AD=0 & MD=0 & MND>0)				938		None	None		
SOME (AD>0&0<MD<MNDmax&MND<MNDmax)				190					
UNEXPLAINED RECORDS				0					
0<AD<1kBq & MD>0				0					
AD=0 & MD>0				0					
AD<0 & MD >0				0					
2-SEC COUNT PERIODS					11,280				
2-SEC RECORDS WITH SORTS				42					
2-SEC RECORDS WITHOUT SORTS				11,238					
TOTAL PROCESS RECORDS (2-s SORTS and 20-s PERIODS)					1,170				
NONPROCESSING RECORDS (Test, calibration, etc)					9				
2-SEC SORT DETECTORS									
1 DET		33	78.6%	5 DET	0	0.0%			
2 DET		8	19.0%	6 DET	0	0.0%			
3 DET		1	2.4%	7 DET	0	0.0%			
4 DET		0	0.0%	8 DET	0	0.0%			
AVERAGE TIME BETWEEN 2-SEC SORTS				683.6 sec					
FREQUENCY DISTRIBUTIONS									
1-GATE SORTS			ACT_ND	NUM	SPEC_A	FREQ%	ACT_P	NUM	FREQ%
DET	SORTS	FREQ%	(Bq)	(#)	(Bq/kg)		(kBq)	(#)	
1	2	9.5%	-14000	2	-250	0.2%	4	4	9.5%
2	5	23.8%	-12000	3	-215	0.3%	8	19	45.2%
3	5	23.8%	-10000	1	-179	0.1%	12	6	14.3%
4	5	23.8%	-8000	1	-143	0.1%	16	2	4.8%
5	3	14.3%	-6000	5	-107	0.4%	20	2	4.8%
6	1	4.8%	-4000	25	-72	2.2%	24	0	0.0%
7	0	0.0%	-2000	74	-36	6.5%	28	0	0.0%
8	0	0.0%	0	181	0	15.9%	32	3	7.1%
TOTAL	21		2000	227	36	20.0%	36	0	0.0%
			4000	263	72	23.1%	40	1	2.4%
2-GATE SORTS			6000	190	107	16.7%	44	1	2.4%
DET	SORTS	FREQ%	8000	104	143	9.1%	48	0	0.0%
9	1	4.8%	10000	41	179	3.6%	52	2	4.8%
10	5	23.8%	12000	16	215	1.4%	56	0	0.0%
11	6	28.6%	14000	2	250	0.2%	60	0	0.0%
12	7	33.3%	16000	1	286	0.1%	64	0	0.0%
13	2	9.5%	18000	0	322	0.0%	68	0	0.0%
14	0	0.0%	20000	1	358	0.1%	72	1	2.4%
15	0	0.0%	22000	0	394	0.0%	76	0	0.0%
TOTAL	21		24000	0	429	0.0%	80	0	0.0%
			26000	0	465	0.0%	84	0	0.0%
			>28000	0	0	0.0%	>84	1	2.4%
			TOTAL	1,137			TOTAL	42	
EVENT TYPES		HPE	45	MPE	190	DISE	0		



SORTER 3				14-Feb-94					
SORTER SOIL DENSITY		1.20 tons/m ³		BACKGROUND		0.62 ± 0.06 c/s			
SOIL		CONTAMINATED		CLEAN		TOTAL			
MASS TOTAL		1.0 tons		37.0 tons		38.0 tons			
MAXIMUM/SORT		78.2 kg		65.2 kg					
MINIMUM/SORT		0.7 kg		49.6 kg					
VOLUME IN-GROUND		0.8 yd ³		29.3 yd ³		30.1 yd ³			
WEIGHT RECOVERY (CLEAN/(HOT+CLEAN))		97.5%							
ACTIVITY		PARTICLE		DISPERSED + PARTICLE					
				HOT		CLEAN			
TOTAL		4,497 kBq		4,286 kBq		1,380 kBq			
MAXIMUM/SORT		735 kBq		1,530 kBq		16 kBq			
MINIMUM/SORT		3 kBq		0 Bq		-18 kBq			
SPECIFIC ACTIVITY				4,509 Bq/kg		37 Bq/kg			
SORTS									
20-SEC PROCESS PERIODS				644		UNEXP PAUSE			
ALL 80 ELEMENTS SORT (MD>0&MND=0)				9		TIME TIME			
NONE (AD=0 & MD=0 & MND>0)				468		13:06 12:00			
SOME (AD>0&0<MD<MNDmax&MND<MNDmax)				167		14:58 12:33			
UNEXPLAINED RECORDS				0		15:10 12:47			
0<AD<1kBq & MD>0				0		13:06			
AD=0 & MD>0				3		14:27			
AD<0 & MD >0				0		15:00			
2-SEC COUNT PERIODS				6,440		15:02			
2-SEC RECORDS WITH SORTS				53		15:11			
2-SEC RECORDS WITHOUT SORTS				6,387					
TOTAL PROCESS RECORDS (2-s SORTS and 20-s PERIODS)				697					
NONPROCESSING RECORDS (Test, calibration, etc)				6					
2-SEC SORT DETECTORS									
1 DET		46	86.8%	5 DET	0	0.0%			
2 DET		6	11.3%	6 DET	0	0.0%			
3 DET		1	1.9%	7 DET	0	0.0%			
4 DET		0	0.0%	8 DET	0	0.0%			
AVERAGE TIME BETWEEN 2-SEC SORTS				280.0 sec					
FREQUENCY DISTRIBUTIONS									
1-GATE SORTS			ACT_ND	NUM	SPEC_A	FREQ%	ACT_P	NUM	FREQ%
DET	SORTS	FREQ%	(Bq)	(#)	(Bq/kg)		(kBq)	(#)	
1	0	0.0%	-14000	3	-215	0.5%	4	1	1.9%
2	0	0.0%	-12000	1	-184	0.2%	8	9	17.0%
3	1	2.3%	-10000	2	-153	0.3%	12	9	17.0%
4	34	79.1%	-8000	10	-123	1.5%	16	0	0.0%
5	3	7.0%	-6000	20	-92	3.1%	20	4	7.5%
6	4	9.3%	-4000	20	-61	3.1%	24	3	5.7%
7	0	0.0%	-2000	44	-31	6.8%	28	0	0.0%
8	1	2.3%	0	83	0	12.8%	32	1	1.9%
TOTAL	43		2000	112	31	17.2%	36	1	1.9%
			4000	124	61	19.1%	40	2	3.8%
2-GATE SORTS			6000	109	92	16.8%	44	1	1.9%
DET	SORTS	FREQ%	8000	85	123	13.1%	48	2	3.8%
9	0	0.0%	10000	25	153	3.8%	52	0	0.0%
10	0	0.0%	12000	6	184	0.9%	56	2	3.8%
11	1	10.0%	14000	5	215	0.8%	60	0	0.0%
12	4	40.0%	16000	0	245	0.0%	64	1	1.9%
13	2	20.0%	18000	1	276	0.2%	68	2	3.8%
14	2	20.0%	20000	0	307	0.0%	72	0	0.0%
15	1	10.0%	22000	0	337	0.0%	76	0	0.0%
TOTAL	10		24000	0	368	0.0%	80	1	1.9%
			26000	0	399	0.0%	84	0	0.0%
			>28000	0	0	0.0%	>84	14	26.4%
			TOTAL	650			TOTAL	53	
EVENT TYPES		HPE	49	MPE	425	DISE	759		



SORTER 4				14-Feb-94					
SORTER SOIL DENSITY		1.20 tons/m³		BACKGROUND		0.59 ± 0.03 c/s			
SOIL				CONTAMINATED		CLEAN		TOTAL	
MASS TOTAL		0.4 tons		66.9 tons		67.3 tons			
MAXIMUM/SORT		58.7 kg		55.9 kg					
MINIMUM/SORT		0.7 kg		51.7 kg					
VOLUME IN-GROUND		0.3 yd³		53.0 yd³		53.4 yd³			
WEIGHT RECOVERY (CLEAN/(HOT+CLEAN))				99.4%					
ACTIVITY				DISPERSED + PARTICLE					
		PARTICLE <td colspan="2">HOT<td colspan="2">CLEAN</td><td colspan="2"></td></td>		HOT <td colspan="2">CLEAN</td> <td colspan="2"></td>		CLEAN			
TOTAL		616 kBq		748 kBq		9,280 kBq			
MAXIMUM/SORT		60 kBq		57 kBq		20 kBq			
MINIMUM/SORT		3 kBq		0 Bq		-9 kBq			
SPECIFIC ACTIVITY				1,877 Bq/kg		139 Bq/kg			
SORTS									
20-SEC PROCESS PERIODS				1,204		UNEXP		PAUSE	
ALL 80 ELEMENTS SORT (MD>0&MND=0)				3		TIME		TIME	
NONE (AD=0 & MD=0 & MND>0)				943		None		10:13	
SOME (AD>0&0<MD<MNDmax&MND<MNDmax)				258					
UNEXPLAINED RECORDS				0					
0<AD<1kBq & MD>0				0					
AD=0 & MD>0				0					
AD<0 & MD >0				0					
2-SEC COUNT PERIODS				12,040					
2-SEC RECORDS WITH SORTS				49					
2-SEC RECORDS WITHOUT SORTS				11,991					
TOTAL PROCESS RECORDS (2-s SORTS and 20-s PERIODS)				1,253					
NONPROCESSING RECORDS (Test, calibration, etc)				2					
2-SEC SORT DETECTORS									
1 DET		36	73.5%	5 DET		0	0.0%		
2 DET		10	20.4%	6 DET		0	0.0%		
3 DET		3	6.1%	7 DET		0	0.0%		
4 DET		0	0.0%	8 DET		0	0.0%		
AVERAGE TIME BETWEEN 2-SEC SORTS				668.9 sec					
FREQUENCY DISTRIBUTIONS									
1-GATE SORTS			ACT_ND	NUM	SPEC_A	FREQ%	ACT_P	NUM	FREQ%
DET	SORTS	FREQ%	(Bq)	(#)	(Bq/kg)		(kBq)	(#)	
1	2	8.3%	-14000	0	-250	0.0%	4	4	8.2%
2	6	25.0%	-12000	0	-215	0.0%	8	24	49.0%
3	8	33.3%	-10000	0	-179	0.0%	12	6	12.2%
4	3	12.5%	-8000	1	-143	0.1%	16	3	6.1%
5	2	8.3%	-6000	0	-107	0.0%	20	2	4.1%
6	2	8.3%	-4000	12	-72	1.0%	24	3	6.1%
7	1	4.2%	-2000	11	-36	0.9%	28	2	4.1%
8	0	0.0%	0	26	0	2.2%	32	0	0.0%
TOTAL	24		2000	37	36	3.1%	36	2	4.1%
			4000	93	72	7.7%	40	1	2.0%
2-GATE SORTS			6000	190	107	15.8%	44	0	0.0%
DET	SORTS	FREQ%	8000	270	143	22.4%	48	1	2.0%
9	6	24.0%	10000	226	179	18.7%	52	0	0.0%
10	6	24.0%	12000	189	215	15.7%	56	0	0.0%
11	6	24.0%	14000	101	250	8.4%	60	0	0.0%
12	2	8.0%	16000	31	286	2.6%	64	1	2.0%
13	2	8.0%	18000	14	322	1.2%	68	0	0.0%
14	2	8.0%	20000	4	358	0.3%	72	0	0.0%
15	1	4.0%	22000	1	394	0.1%	76	0	0.0%
TOTAL	25		24000	0	429	0.0%	80	0	0.0%
			26000	0	465	0.0%	84	0	0.0%
			>28000	0	0	0.0%	>84	0	0.0%
			TOTAL	1,206			TOTAL	49	
EVENT TYPES		HPE	50	MPE	291	DISE	228		



WORK HISTORY - JA SOIL CLEANUP PLANT

15-Feb-94

WORK DAY START	06:00 AM	WORK DAY END	16:30 PM
LUNCH START	11:00 AM	TIME LOST DURING LUNCH	0.0 HR

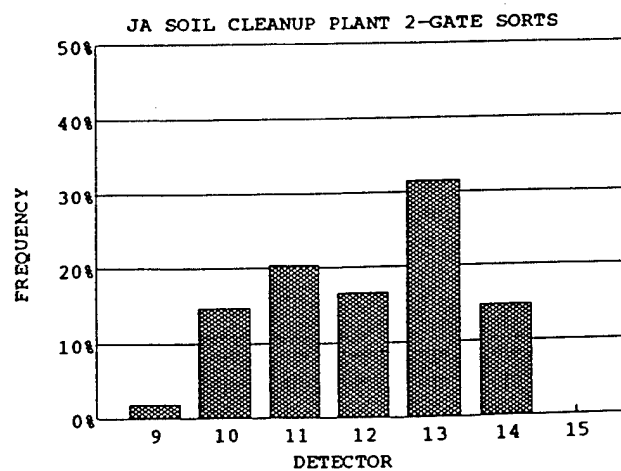
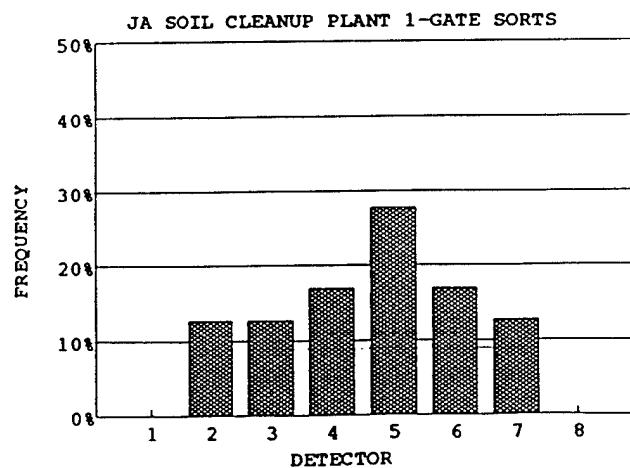
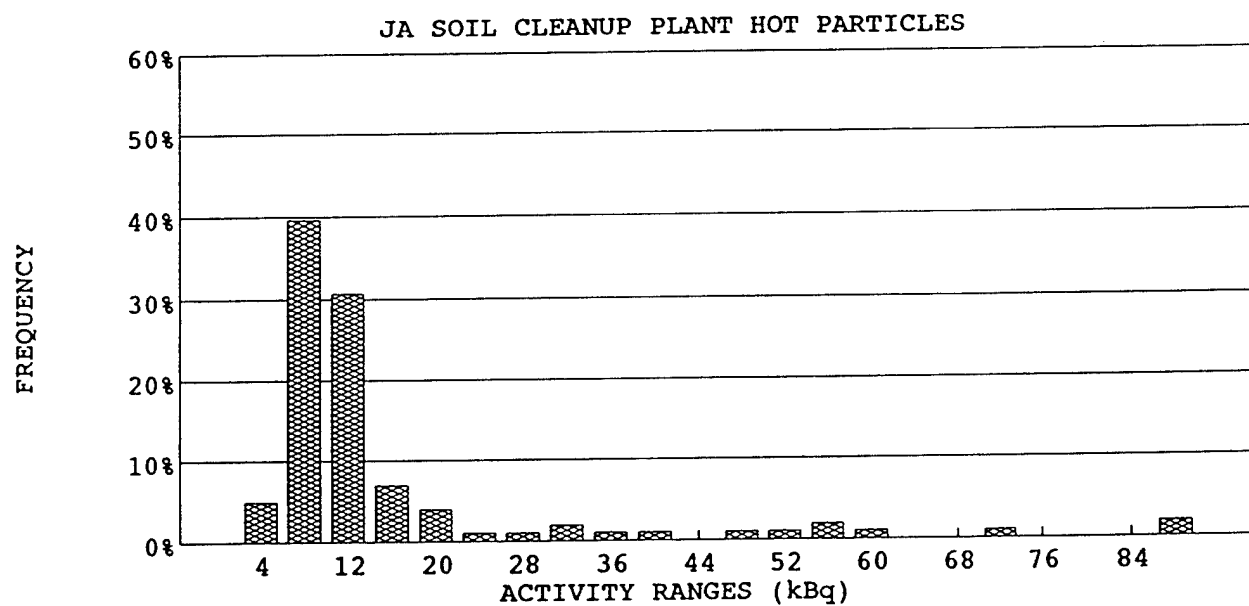
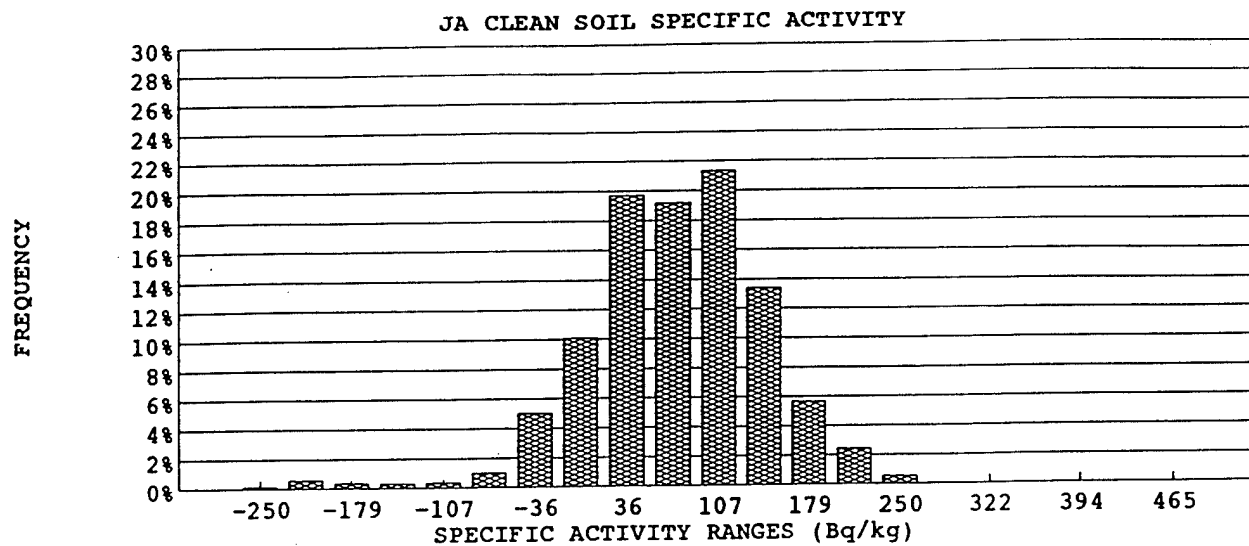
	SORTER 1	SORTER 2	SORTER 3	SORTER 4	TOTAL (sorter hours)
WORK HOURS	10.5 hr	10.5 hr	10.5 hr	10.5 hr	42.0 hr
SORTER AVAILABLE HOURS	10.3 hr	10.3 hr	10.3 hr	10.3 hr	41.0 hr
SORTER START-UP	06:00	06:00	06:00	06:00	
START SOIL PROCESSING	06:18	06:18	07:20	07:19	
TIME REQUIRED TO START-UP	0.3 hr	0.3 hr	1.3 hr	1.3 hr	3.3 hr
SORTER SHUT-DOWN	16:15	16:15	16:15	16:15	
END SOIL PROCESSING	15:54	15:53	13:39	15:38	
TIME REQUIRED TO SHUT DOWN	0.4 hr	0.4 hr	2.6 hr	0.6 hr	3.9 hr
ACTUAL PROCESS HOURS	9.6 hr	9.6 hr	4.7 hr	8.3 hr	32.2 hr
DOWN-TIME	0.7 hr	0.7 hr	5.6 hr	2.0 hr	8.9 hr
SYSTEM PAUSE	0.0 hr	0.0 hr	1.6 hr	0.1 hr	1.7 hr
SORTER NONAVAILABLE TIME	0.2 hr	0.2 hr	0.2 hr	0.2 hr	1.0 hr
AUTHORIZED DELAY TIME	0.0 hr	0.0 hr	0.0 hr	0.0 hr	0.0 hr
PLANT PERFORMANCE					78.4%
PRODUCTIVITY					76.5%

PRODUCTIVITY

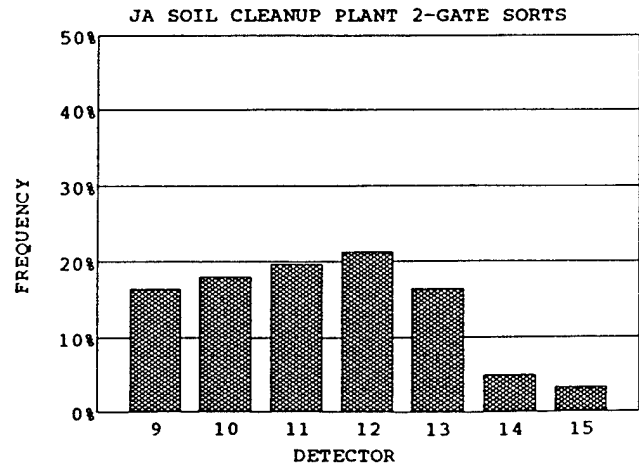
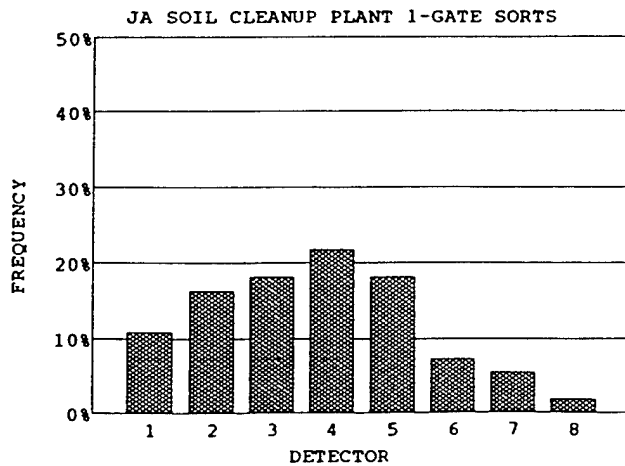
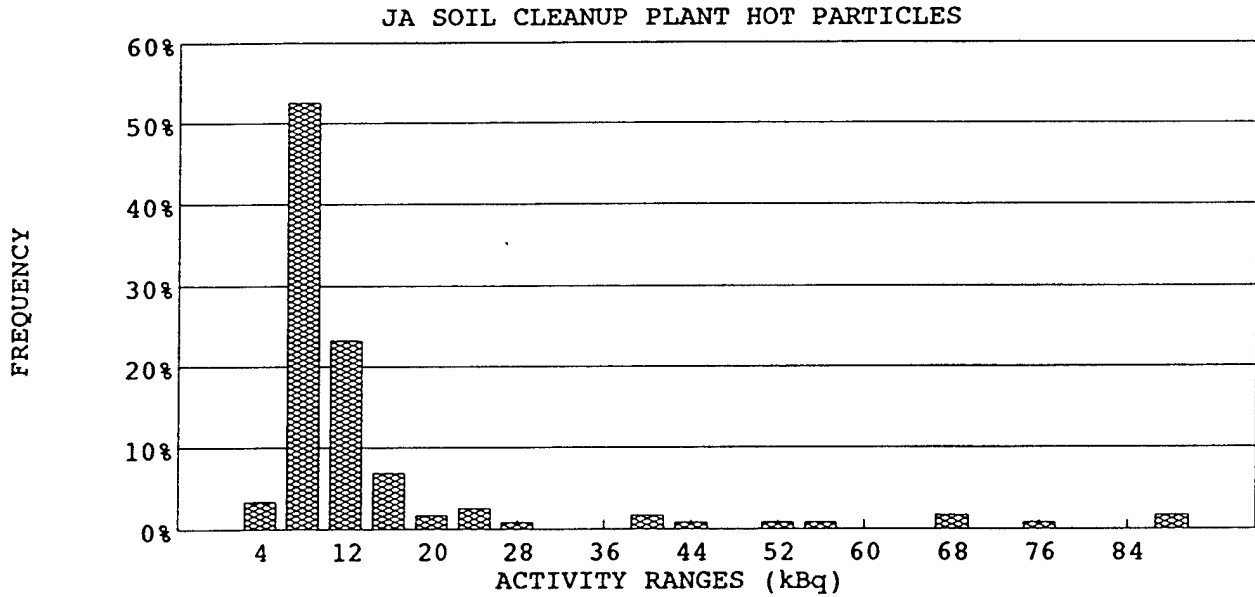
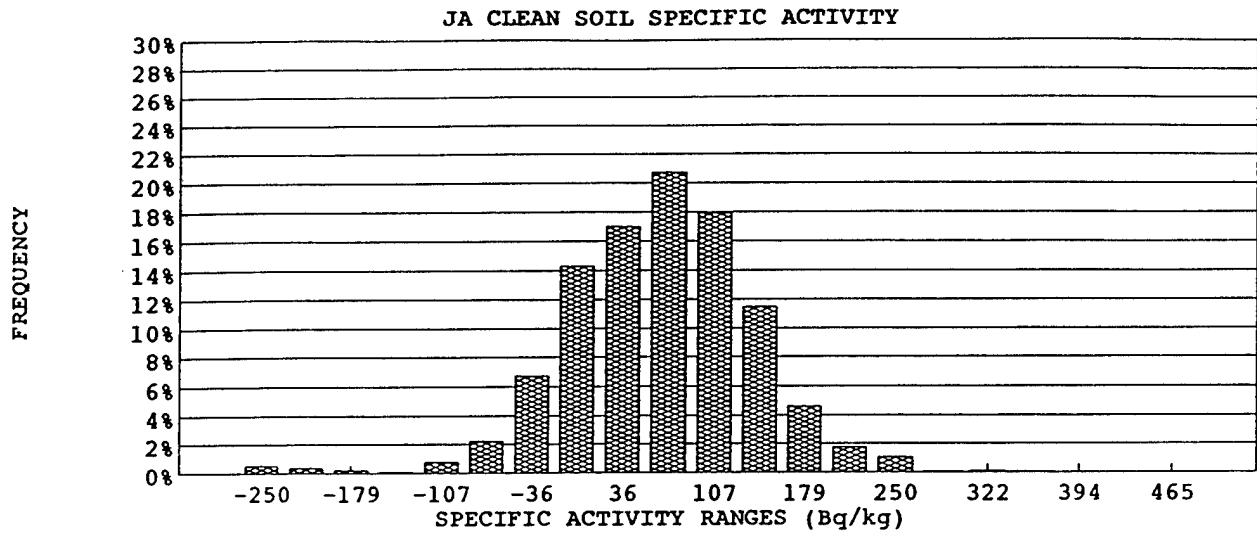
Date	15-Feb-94	Excused Delays for day (sorter-hrs)	0 hr
Contract day (from 6 Sep)	128	Excused delays for contract (sorter-hrs)	1,693 hr
Current Contract week	22	Excused delay days (plant-days)	42 days
		Excused delay months (plant-month)	1.63 months
Soil production for Day	324 MT		
Cumulative Soil Production for Week	555 MT	Percent of contract completed	34.2%
Total Soil production for contract		Tons Ahead or Behind Schedule	1,668 MT
Since 6 Sep 93	32,600 MT	Days ahead or behind schedule	5 days
Since 6 Aug 93	34,191 MT		
Total Soil production for project	60,478 MT		

MT = metric tons

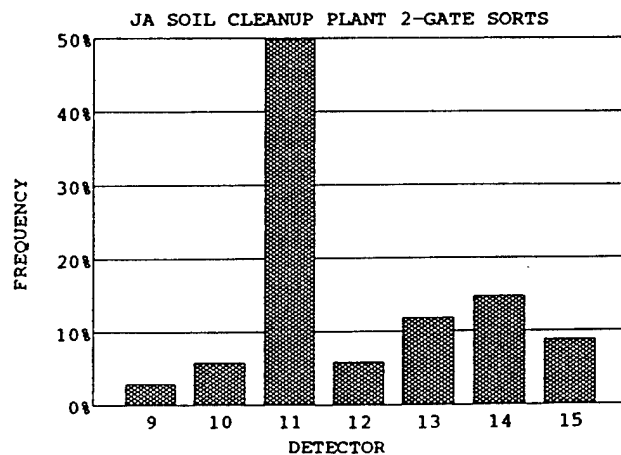
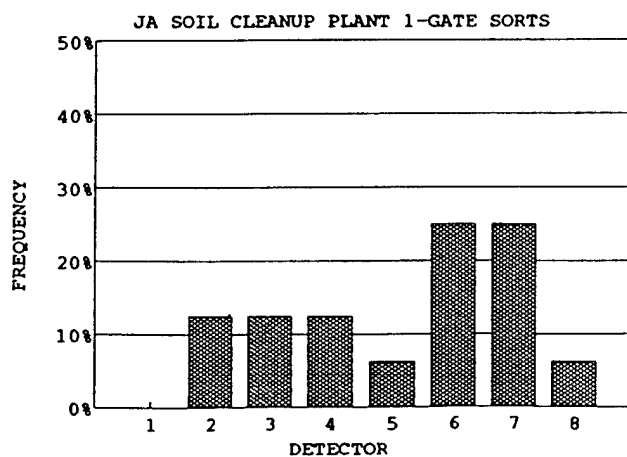
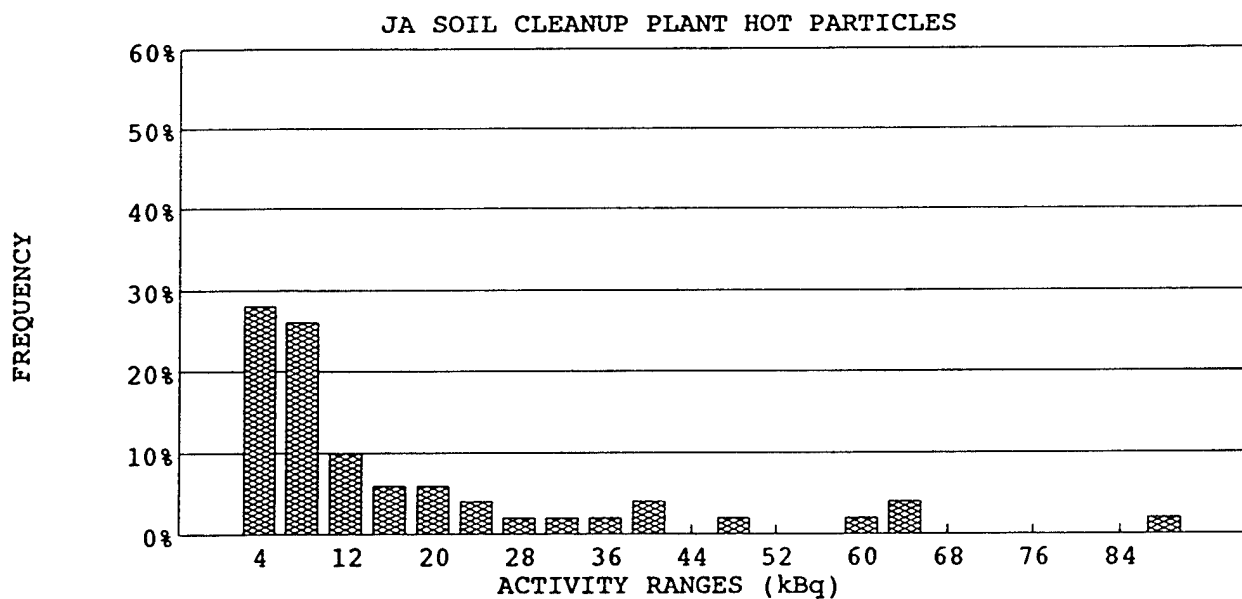
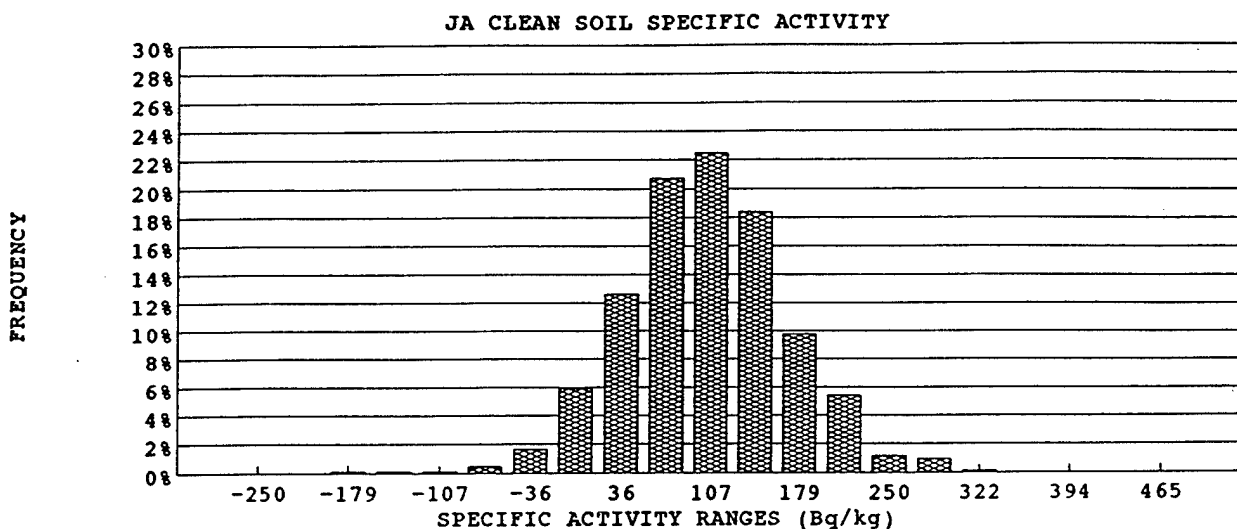
SORTER 1										15-Feb-94	
SORTER SOIL DENSITY					1.20 tons/m ³		BACKGROUND		0.66 ± 0.02 c/s		
SOIL					CONTAMINATED		CLEAN		TOTAL		
MASS TOTAL					0.2 tons		96.4 tons		96.5 tons		
MAXIMUM/SORT					4.2 kg		55.9 kg				
MINIMUM/SORT					0.7 kg		51.7 kg				
VOLUME IN-GROUND					0.1 yd ³		76.4 yd ³		76.5 yd ³		
WEIGHT RECOVERY (CLEAN/(HOT+CLEAN))					99.8%						
ACTIVITY					PARTICLE		DISPERSED + PARTICLE				
							HOT		CLEAN		
TOTAL					1,483 kBq		693 kBq		5,551 kBq		
MAXIMUM/SORT					160 kBq		85 kBq		15 kBq		
MINIMUM/SORT					3 kBq		0 Bq		-14 kBq		
SPECIFIC ACTIVITY							4,196 Bq/kg		58 Bq/kg		
SORTS											
20-SEC PROCESS PERIODS							1,727		UNEXP PAUSE		
ALL 80 ELEMENTS SORT (MD>0&MND=0)							0		TIME TIME		
NONE (AD=0 & MD=0 & MND>0)							1,568		None None		
SOME (AD>0&0<MD<MNDmax&MND<MNDmax)							159				
UNEXPLAINED RECORDS							0				
0<AD<1kBq & MD>0							0				
AD=0 & MD>0							0				
AD<0 & MD >0							0				
2-SEC COUNT PERIODS							17,270				
2-SEC RECORDS WITH SORTS							101				
2-SEC RECORDS WITHOUT SORTS							17,169				
TOTAL PROCESS RECORDS (2-s SORTS and 20-s PERIODS)							1,828				
NONPROCESSING RECORDS (Test, calibration, etc)							5				
2-SEC SORT DETECTORS											
1 DET			73	72.3%	5 DET		0	0.0%			
2 DET			20	19.8%	6 DET		0	0.0%			
3 DET			6	5.9%	7 DET		0	0.0%			
4 DET			2	2.0%	8 DET		0	0.0%			
AVERAGE TIME BETWEEN 2-SEC SORTS							473.2 sec				
FREQUENCY DISTRIBUTIONS											
1-GATE SORTS				ACT_ND	NUM	SPEC_A	FREQ%	ACT_P	NUM	FREQ%	
DET		SORTS	FREQ%	(Bq)	(#)	(Bq/kg)		(kBq)	(#)		
1		0	0.0%	-14000	2	-250	0.1%	4	5	5.0%	
2		6	12.8%	-12000	10	-215	0.6%	8	40	39.6%	
3		6	12.8%	-10000	6	-179	0.3%	12	31	30.7%	
4		8	17.0%	-8000	5	-143	0.3%	16	7	6.9%	
5		13	27.7%	-6000	6	-107	0.3%	20	4	4.0%	
6		8	17.0%	-4000	17	-72	1.0%	24	1	1.0%	
7		6	12.8%	-2000	87	-36	5.0%	28	1	1.0%	
8		0	0.0%	0	175	0	10.1%	32	2	2.0%	
TOTAL		47		2000	341	36	19.7%	36	1	1.0%	
				4000	332	72	19.2%	40	1	1.0%	
2-GATE SORTS				6000	369	107	21.3%	44	0	0.0%	
DET		SORTS	FREQ%	8000	232	143	13.4%	48	1	1.0%	
9		1	1.9%	10000	98	179	5.7%	52	1	1.0%	
10		8	14.8%	12000	42	215	2.4%	56	2	2.0%	
11		11	20.4%	14000	9	250	0.5%	60	1	1.0%	
12		9	16.7%	16000	1	286	0.1%	64	0	0.0%	
13		17	31.5%	18000	0	322	0.0%	68	0	0.0%	
14		8	14.8%	20000	0	358	0.0%	72	1	1.0%	
15		0	0.0%	22000	0	394	0.0%	76	0	0.0%	
TOTAL		54		24000	0	429	0.0%	80	0	0.0%	
				26000	0	465	0.0%	84	0	0.0%	
				>28000	0	0	0.0%	>84	2	2.0%	
				TOTAL	1,732			TOTAL	101		
EVENT TYPES		HPE	108	MPE	128	DISE	0				



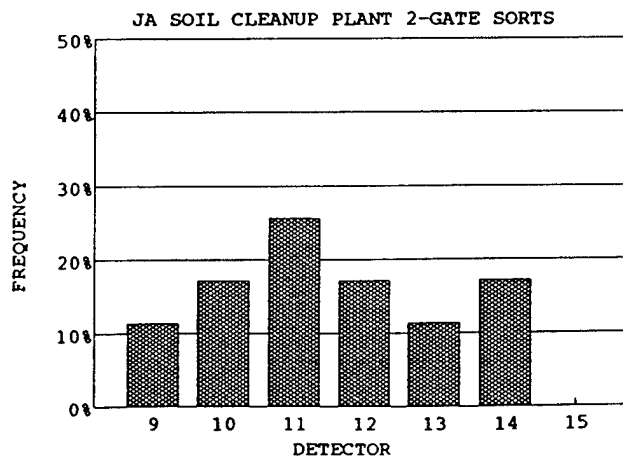
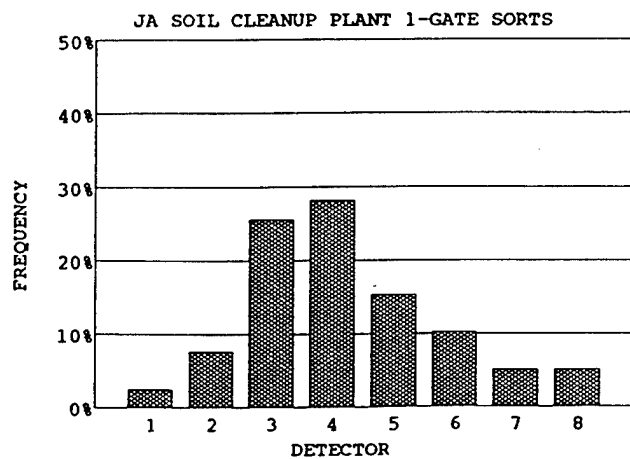
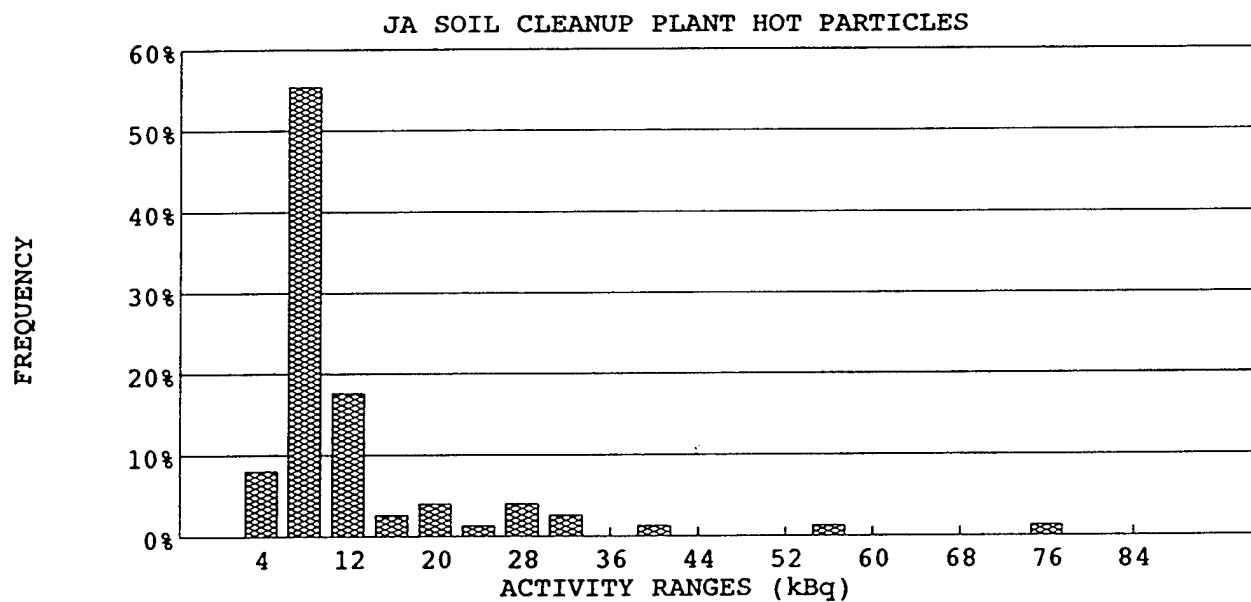
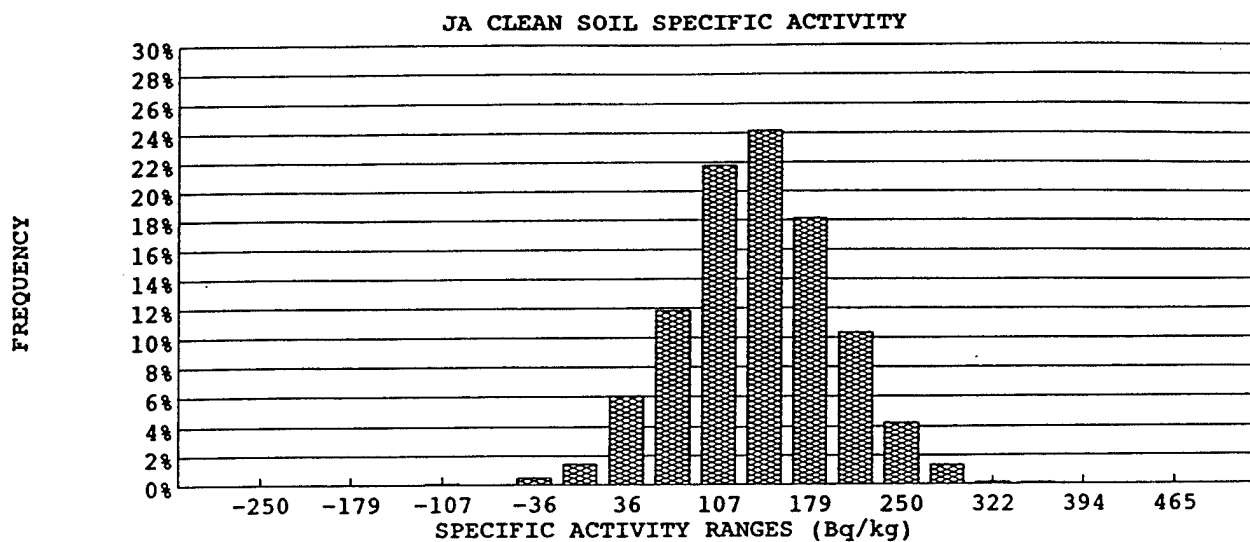
SORTER 2				15-Feb-94					
SORTER SOIL DENSITY			1.20 tons/m³		BACKGROUND		0.77 ± 0.02 c/s		
SOIL				CONTAMINATED		CLEAN		TOTAL	
MASS TOTAL				0.4 tons		96.2 tons		96.5 tons	
MAXIMUM/SORT				3.5 kg		55.9 kg			
MINIMUM/SORT				0.7 kg		52.4 kg			
VOLUME IN-GROUND				0.3 yd³		76.2 yd³		76.5 yd³	
WEIGHT RECOVERY (CLEAN/(HOT+CLEAN))				99.6%					
ACTIVITY				PARTICLE		DISPERSED + PARTICLE			
						HOT		CLEAN	
TOTAL				1,506 kBq		1,092 kBq		4,501 kBq	
MAXIMUM/SORT				111 kBq		66 kBq		19 kBq	
MINIMUM/SORT				3 kBq		0 Bq		-17 kBq	
SPECIFIC ACTIVITY						2,977 Bq/kg		47 Bq/kg	
SORTS									
20-SEC PROCESS PERIODS						1,727		UNEXP PAUSE	
ALL 80 ELEMENTS SORT (MD>0&MND=0)				0				TIME TIME	
NONE (AD=0 & MD=0 & MND>0)				1,343				None None	
SOME (AD>0&0<MD<MNDmax&MND<MNDmax)				384					
UNEXPLAINED RECORDS				0					
0<AD<1kBq & MD>0				0					
AD=0 & MD>0				0					
AD<0 & MD >0				0					
2-SEC COUNT PERIODS						17,270			
2-SEC RECORDS WITH SORTS				116					
2-SEC RECORDS WITHOUT SORTS				17,154					
TOTAL PROCESS RECORDS (2-s SORTS and 20-s PERIODS)						1,843			
NONPROCESSING RECORDS (Test, calibration, etc)						3			
2-SEC SORT DETECTORS									
1 DET		95	81.9%	5 DET		0	0.0%		
2 DET		18	15.5%	6 DET		0	0.0%		
3 DET		3	2.6%	7 DET		0	0.0%		
4 DET		0	0.0%	8 DET		0	0.0%		
AVERAGE TIME BETWEEN 2-SEC SORTS				363.6 sec					
FREQUENCY DISTRIBUTIONS									
1-GATE SORTS			ACT_ND	NUM	SPEC_A	FREQ%	ACT_P	NUM	FREQ%
DET	SORTS	FREQ%	(Bq)	(#)	(Bq/kg)		(kBq)	(#)	
1	6	10.9%	-14000	9	-250	0.5%	4	4	3.4%
2	9	16.4%	-12000	7	-215	0.4%	8	61	52.6%
3	10	18.2%	-10000	4	-179	0.2%	12	27	23.3%
4	12	21.8%	-8000	2	-143	0.1%	16	8	6.9%
5	10	18.2%	-6000	14	-107	0.8%	20	2	1.7%
6	4	7.3%	-4000	39	-72	2.3%	24	3	2.6%
7	3	5.5%	-2000	116	-36	6.7%	28	1	0.9%
8	1	1.8%	0	247	0	14.3%	32	0	0.0%
TOTAL	55		2000	294	36	17.0%	36	0	0.0%
			4000	359	72	20.8%	40	2	1.7%
			6000	310	107	17.9%	44	1	0.9%
2-GATE SORTS			8000	198	143	11.4%	48	0	0.0%
DET	SORTS	FREQ%	10000	79	179	4.6%	52	1	0.9%
9	10	16.4%	12000	30	215	1.7%	56	1	0.9%
10	11	18.0%	14000	18	250	1.0%	60	0	0.0%
11	12	19.7%	16000	1	286	0.1%	64	0	0.0%
12	13	21.3%	18000	2	322	0.1%	68	2	1.7%
13	10	16.4%	20000	1	358	0.1%	72	0	0.0%
14	3	4.9%	22000	0	394	0.0%	76	1	0.9%
15	2	3.3%	24000	0	429	0.0%	80	0	0.0%
TOTAL	61		26000	0	465	0.0%	84	0	0.0%
			>28000	0	0	0.0%	>84	2	1.7%
			TOTAL	1,730			TOTAL	116	
EVENT TYPES		HPE	127	MPE	397	DISE	0		



SORTER 3				15-Feb-94					
SORTER SOIL DENSITY		1.20 tons/m ³		BACKGROUND		0.62 ± 0.02 c/s			
SOIL		CONTAMINATED		CLEAN		TOTAL			
MASS TOTAL		0.9 tons		46.3 tons		47.2 tons			
MAXIMUM/SORT		58.1 kg		55.9 kg					
MINIMUM/SORT		0.7 kg		47.5 kg					
VOLUME IN-GROUND		0.7 yd ³		36.7 yd ³		37.4 yd ³			
WEIGHT RECOVERY (CLEAN/(HOT+CLEAN))		98.0%							
ACTIVITY		PARTICLE		DISPERSED + PARTICLE					
TOTAL		789 kBq		HOT 2,166 kBq		CLEAN 4,092 kBq			
MAXIMUM/SORT		86 kBq		45 kBq		18 kBq			
MINIMUM/SORT		3 kBq		(1,867)Bq		-5 kBq			
SPECIFIC ACTIVITY				2,340 Bq/kg		88 Bq/kg			
SORTS									
20-SEC PROCESS PERIODS				844		UNEXP PAUSE			
ALL 80 ELEMENTS SORT (MD>0&MND=0)				2		TIME TIME			
NONE (AD=0 & MD=0 & MND>0)				482		08:46 11:02			
SOME (AD>0&0<MD<MNDmax&MND<MNDmax)				360		08:51 12:42			
UNEXPLAINED RECORDS				0		08:51			
0<AD<1kBq & MD>0				9		08:53			
AD=0 & MD>0				1		08:54			
AD<0 & MD >0				1		08:55			
2-SEC COUNT PERIODS				8,440		08:56			
2-SEC RECORDS WITH SORTS				50		09:00			
2-SEC RECORDS WITHOUT SORTS				8,390		09:21			
TOTAL PROCESS RECORDS (2-s SORTS and 20-s PERIODS)				894		12:39			
NONPROCESSING RECORDS (Test, calibration, etc)				5		12:44			
2-SEC SORT DETECTORS									
1 DET		35	70.0%	5 DET		0	0.0%		
2 DET		9	18.0%	6 DET		0	0.0%		
3 DET		4	8.0%	7 DET		0	0.0%		
4 DET		2	4.0%	8 DET		0	0.0%		
AVERAGE TIME BETWEEN 2-SEC SORTS				482.3 sec					
FREQUENCY DISTRIBUTIONS									
1-GATE SORTS			ACT_ND	NUM	SPEC_A	FREQ%	ACT_P	NUM	FREQ%
DET	SORTS	FREQ%	(Bq)	(#)	(Bq/kg)		(kBq)	(#)	
1	0	0.0%	-14000	0	-250	0.0%	4	14	28.0%
2	2	12.5%	-12000	0	-215	0.0%	8	13	26.0%
3	2	12.5%	-10000	1	-179	0.1%	12	5	10.0%
4	2	12.5%	-8000	1	-143	0.1%	16	3	6.0%
5	1	6.3%	-6000	1	-107	0.1%	20	3	6.0%
6	4	25.0%	-4000	4	-72	0.5%	24	2	4.0%
7	4	25.0%	-2000	14	-36	1.6%	28	1	2.0%
8	1	6.3%	0	50	0	5.9%	32	1	2.0%
TOTAL	16		2000	107	36	12.6%	36	1	2.0%
			4000	176	72	20.7%	40	2	4.0%
			6000	191	107	22.5%	44	0	0.0%
2-GATE SORTS			8000	156	143	18.4%	48	1	2.0%
DET	SORTS	FREQ%							
9	1	2.9%	10000	83	179	9.8%	52	0	0.0%
10	2	5.9%	12000	46	215	5.4%	56	0	0.0%
11	17	50.0%	14000	10	250	1.2%	60	1	2.0%
12	2	5.9%	16000	8	286	0.9%	64	2	4.0%
13	4	11.8%	18000	1	322	0.1%	68	0	0.0%
14	5	14.7%	20000	0	358	0.0%	72	0	0.0%
15	3	8.8%	22000	0	394	0.0%	76	0	0.0%
TOTAL	34		24000	0	429	0.0%	80	0	0.0%
			26000	0	465	0.0%	84	0	0.0%
			>28000	0	0	0.0%	>84	1	2.0%
			TOTAL	849			TOTAL	50	
EVENT TYPES		HPE	66	MPE	1090	DISE	166		



SORTER 4				15-Feb-94					
SORTER SOIL DENSITY		1.20 tons/m ³		BACKGROUND		0.60 ± 0.02 c/s			
SOIL		CONTAMINATED		CLEAN		TOTAL			
MASS TOTAL		0.4 tons		82.8 tons		83.2 tons			
MAXIMUM/SORT		58.7 kg		55.9 kg					
MINIMUM/SORT		0.7 kg		53.1 kg					
VOLUME IN-GROUND		0.3 yd ³		65.6 yd ³		66.0 yd ³			
WEIGHT RECOVERY (CLEAN/(HOT+CLEAN))		99.5%							
ACTIVITY		PARTICLE		DISPERSED + PARTICLE					
		HOT		CLEAN					
TOTAL		777 kBq		880 kBq		10,062 kBq			
MAXIMUM/SORT		73 kBq		51 kBq		18 kBq			
MINIMUM/SORT		4 kBq		0 Bq		-7 kBq			
SPECIFIC ACTIVITY				2,094 Bq/kg		121 Bq/kg			
SORTS									
20-SEC PROCESS PERIODS				1,489		UNEXP PAUSE			
ALL 80 ELEMENTS SORT (MD>0&MND=0)				2		TIME TIME			
NONE (AD=0 & MD=0 & MND>0)				1,149		None 13:01			
SOME (AD>0&0<MD<MNDmax&MND<MNDmax)				338					
UNEXPLAINED RECORDS				0					
0<AD<1kBq & MD>0				0					
AD=0 & MD>0				0					
AD<0 & MD >0				0					
2-SEC COUNT PERIODS				14,890					
2-SEC RECORDS WITH SORTS				74					
2-SEC RECORDS WITHOUT SORTS				14,816					
TOTAL PROCESS RECORDS (2-s SORTS and 20-s PERIODS)				1,563					
NONPROCESSING RECORDS (Test, calibration, etc)				0					
2-SEC SORT DETECTORS									
1 DET		58	78.4%	5 DET	0	0.0%			
2 DET		14	18.9%	6 DET	0	0.0%			
3 DET		2	2.7%	7 DET	0	0.0%			
4 DET		0	0.0%	8 DET	0	0.0%			
AVERAGE TIME BETWEEN 2-SEC SORTS				513.4 sec					
FREQUENCY DISTRIBUTIONS									
1-GATE SORTS			ACT_ND	NUM	SPEC_A	FREQ%	ACT_P	NUM	FREQ%
DET	SORTS	FREQ%	(Bq)	(#)	(Bq/kg)		(kBq)	(#)	
1	1	2.6%	-14000	0	-250	0.0%	4	6	8.1%
2	3	7.7%	-12000	0	-215	0.0%	8	41	55.4%
3	10	25.6%	-10000	0	-179	0.0%	12	13	17.6%
4	11	28.2%	-8000	0	-143	0.0%	16	2	2.7%
5	6	15.4%	-6000	1	-107	0.1%	20	3	4.1%
6	4	10.3%	-4000	0	-72	0.0%	24	1	1.4%
7	2	5.1%	-2000	7	-36	0.5%	28	3	4.1%
8	2	5.1%	0	21	0	1.4%	32	2	2.7%
TOTAL	39		2000	90	36	6.0%	36	0	0.0%
			4000	176	72	11.8%	40	1	1.4%
2-GATE SORTS			6000	324	107	21.8%	44	0	0.0%
DET	SORTS	FREQ%	8000	360	143	24.2%	48	0	0.0%
9	4	11.4%	10000	270	179	18.1%	52	0	0.0%
10	6	17.1%	12000	154	215	10.3%	56	1	1.4%
11	9	25.7%	14000	63	250	4.2%	60	0	0.0%
12	6	17.1%	16000	20	286	1.3%	64	0	0.0%
13	4	11.4%	18000	2	322	0.1%	68	0	0.0%
14	6	17.1%	20000	1	358	0.1%	72	0	0.0%
15	0	0.0%	22000	0	394	0.0%	76	1	1.4%
TOTAL	35		24000	0	429	0.0%	80	0	0.0%
			26000	0	465	0.0%	84	0	0.0%
			>28000	0	0	0.0%	>84	0	0.0%
			TOTAL	1,489			TOTAL	74	
EVENT TYPES		HPE	78	MPE	360	DISE	162		



WORK HISTORY - JA SOIL CLEANUP PLANT

16-Feb-94

WORK DAY START	06:00	AM	WORK DAY END	16:30	PM
LUNCH START	11:00	AM	TIME LOST DURING LUNCH	0.5	HR

	SORTER 1	SORTER 2	SORTER 3	SORTER 4	TOTAL (sorter hours)
WORK HOURS	10.0 hr	10.0 hr	10.0 hr	10.0 hr	40.0 hr
SORTER AVAILABLE HOURS	0.0 hr	0.0 hr	0.0 hr	0.0 hr	0.0 hr
SORTER START-UP	NA	NA	NA	NA	
START SOIL PROCESSING	NA	NA	NA	NA	
TIME REQUIRED TO START-UP	0.0 hr	0.0 hr	0.0 hr	0.0 hr	0.0 hr
SORTER SHUT-DOWN	NA	NA	NA	NA	
END SOIL PROCESSING	NA	NA	NA	NA	
TIME REQUIRED TO SHUT DOWN	0.0 hr	0.0 hr	0.0 hr	0.0 hr	0.0 hr
ACTUAL PROCESS HOURS	0.0 hr	0.0 hr	0.0 hr	0.0 hr	0.0 hr
DOWN-TIME	0.0 hr	0.0 hr	0.0 hr	0.0 hr	0.0 hr
SYSTEM PAUSE	0.0 hr	0.0 hr	0.0 hr	0.0 hr	0.0 hr
SORTER NONAVAILABLE TIME	10.0 hr	10.0 hr	10.0 hr	10.0 hr	40.0 hr
AUTHORIZED DELAY TIME	10.0 hr	10.0 hr	10.0 hr	10.0 hr	40.0 hr
PLANT PERFORMANCE					NA
PRODUCTIVITY					0.0%

PRODUCTIVITY

Date	16-Feb-94	Excused Delays for day (sorter-hrs)	40 hr
Contract day (from 6 Sep)	129	Excused delays for contract (sorter-hrs)	1,733 hr
Current Contract week	22	Excused delay days (plant-days)	43 days
		Excused delay months (plant-month)	1.67 months
Soil production for Day	0 MT		
Cumulative Soil Production for Week	555 MT	Percent of contract completed	34.2%
Total Soil production for contract		Tons Ahead or Behind Schedule	1,668 MT
Since 6 Sep 93	32,600 MT	Days ahead or behind schedule	5 days
Since 6 Aug 93	34,191 MT		
Total Soil production for project	60,478 MT		

MT = metric tons

WORK HISTORY - JA SOIL CLEANUP PLANT

17-Feb-94

WORK DAY START	05:55 AM	WORK DAY END	16:30 PM
LUNCH START	11:00 AM	TIME LOST DURING LUNCH	0.0 HR

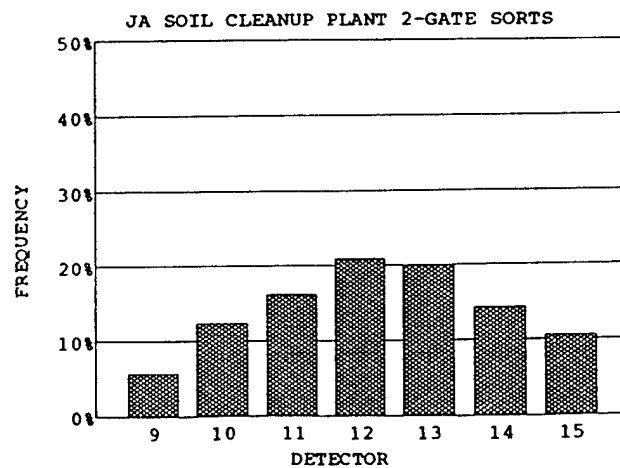
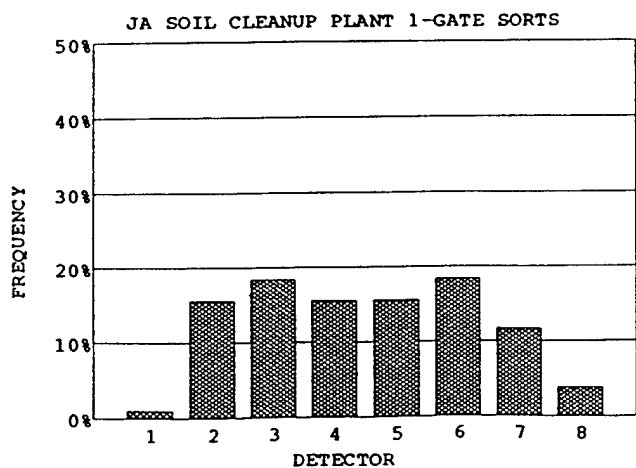
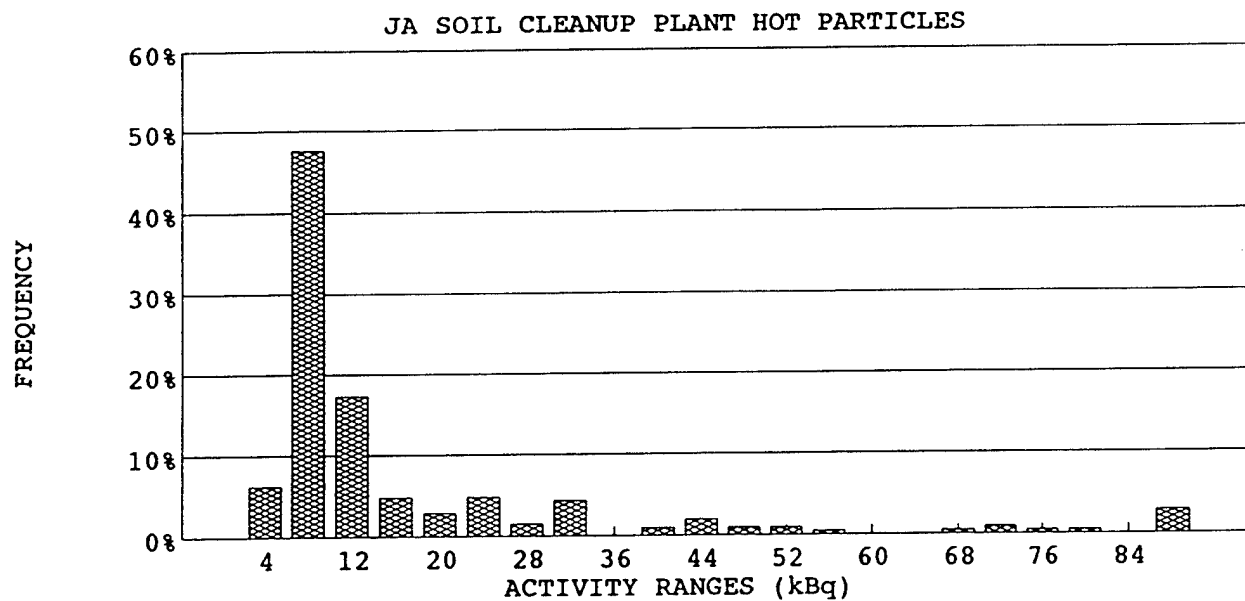
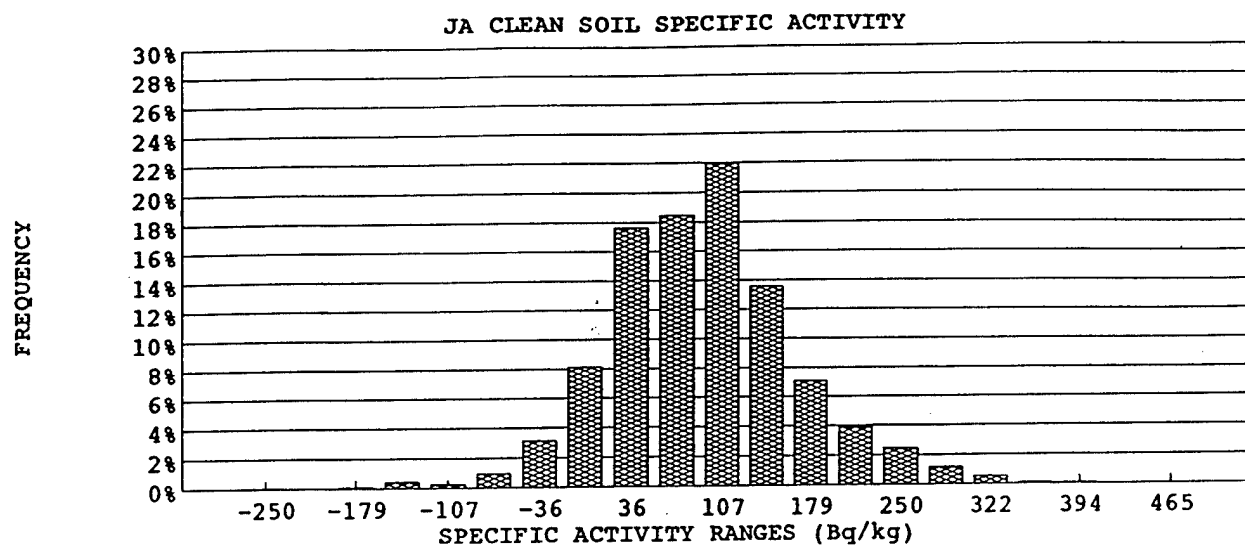
	SORTER 1	SORTER 2	SORTER 3	SORTER 4	TOTAL (sorter hours)
WORK HOURS	10.6 hr	10.6 hr	10.6 hr	10.6 hr	42.3 hr
SORTER AVAILABLE HOURS	10.5 hr	10.5 hr	3.3 hr	3.3 hr	27.7 hr
SORTER START-UP	05:55	05:55	05:55	05:55	
START SOIL PROCESSING	06:14	06:15	06:19	06:17	
TIME REQUIRED TO START-UP	0.3 hr	0.3 hr	0.4 hr	0.4 hr	1.5 hr
SORTER SHUT-DOWN	16:25	16:25	09:15	09:15	
END SOIL PROCESSING	16:06	16:05	08:51	08:51	
TIME REQUIRED TO SHUT DOWN	0.3 hr	0.3 hr	0.4 hr	0.4 hr	1.4 hr
ACTUAL PROCESS HOURS	9.9 hr	9.8 hr	2.5 hr	2.6 hr	24.8 hr
DOWN-TIME	0.6 hr	0.7 hr	0.8 hr	0.8 hr	2.9 hr
SYSTEM PAUSE	0.0 hr	0.0 hr	0.0 hr	0.0 hr	0.0 hr
SORTER NONAVAILABLE TIME	0.1 hr	0.1 hr	7.3 hr	7.3 hr	14.7 hr
AUTHORIZED DELAY TIME	0.0 hr	0.0 hr	6.8 hr	6.8 hr	13.5 hr
PLANT PERFORMANCE					89.6%
PRODUCTIVITY					58.6%

PRODUCTIVITY

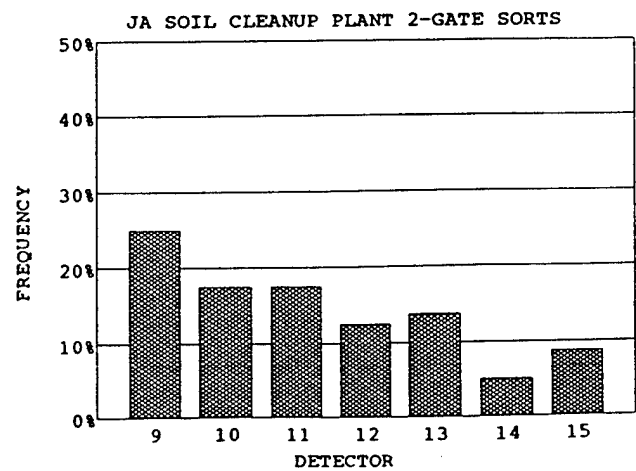
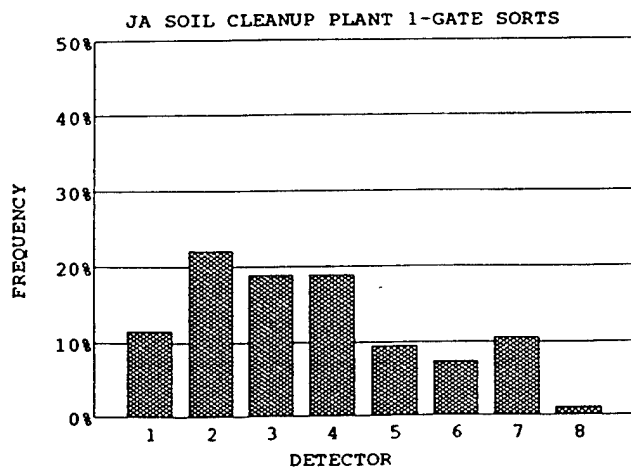
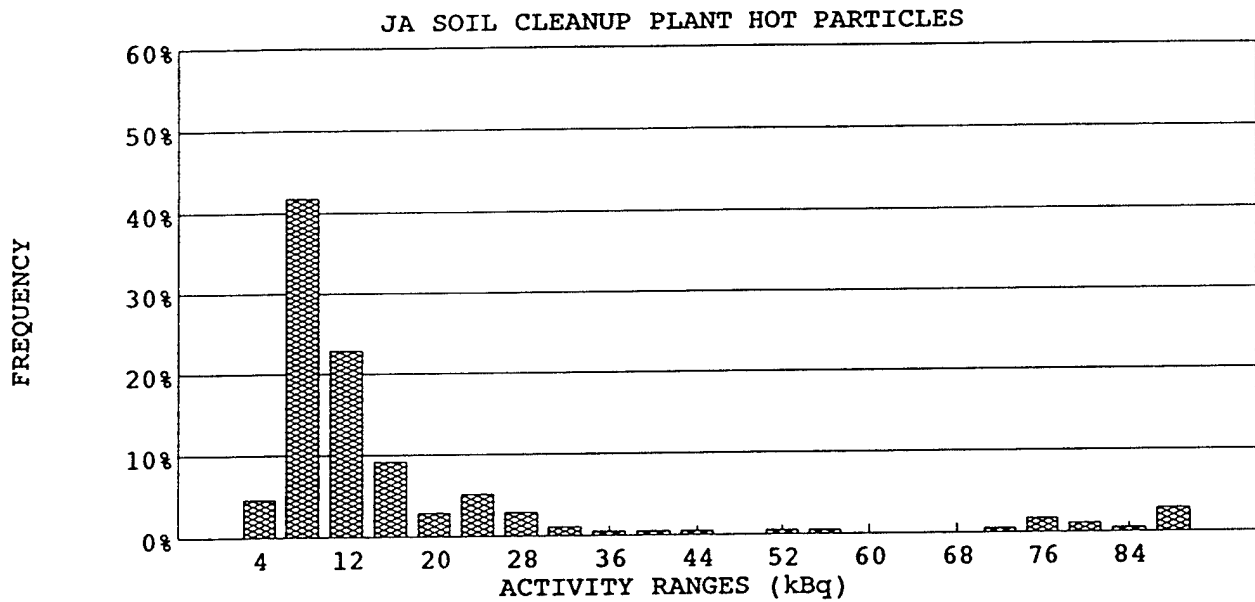
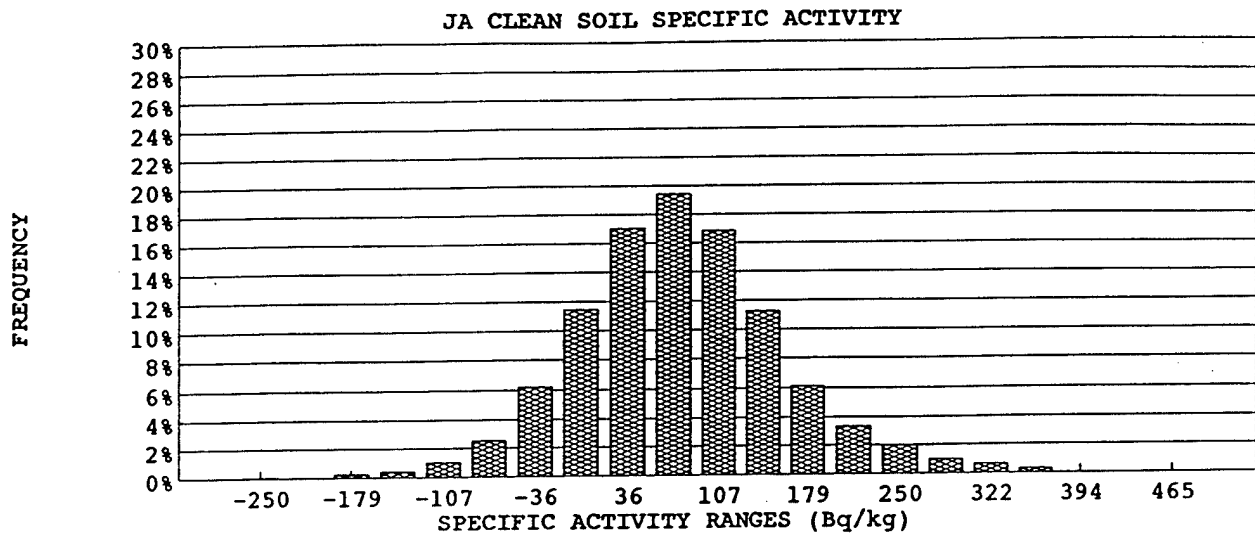
Date	17-Feb-94	Excused Delays for day (sorter-hrs)	13.5 hr
Contract day (from 6 Sep)	130	Excused delays for contract (sorter-hrs)	1,746 hr
Current Contract week	22	Excused delay days (plant-days)	44 days
		Excused delay months (plant-month)	1.68 months
Soil production for Day	250 MT		
Cumulative Soil Production for Week	805 MT	Percent of contract completed	34.4%
Total Soil production for contract		Tons Ahead or Behind Schedule	1,707 MT
Since 6 Sep 93	32,850 MT	Days ahead or behind schedule	5 days
Since 6 Aug 93	34,441 MT		
Total Soil production for project	60,728 MT		

MT = metric tons

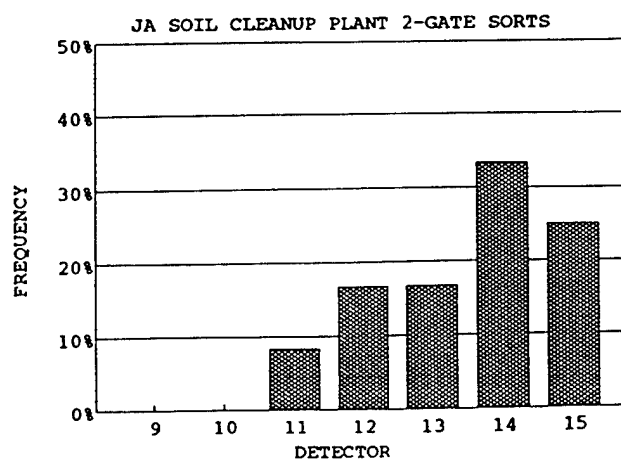
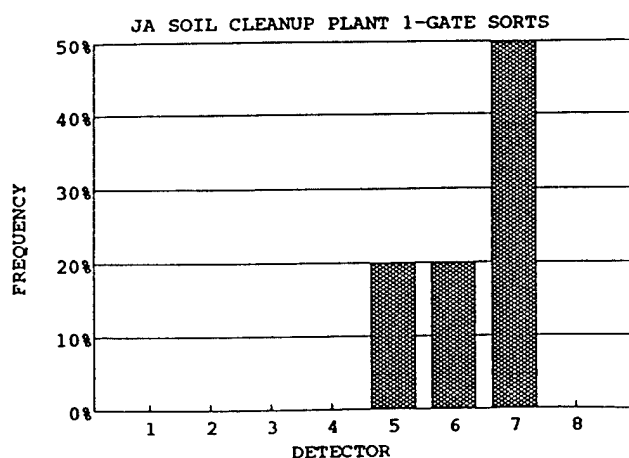
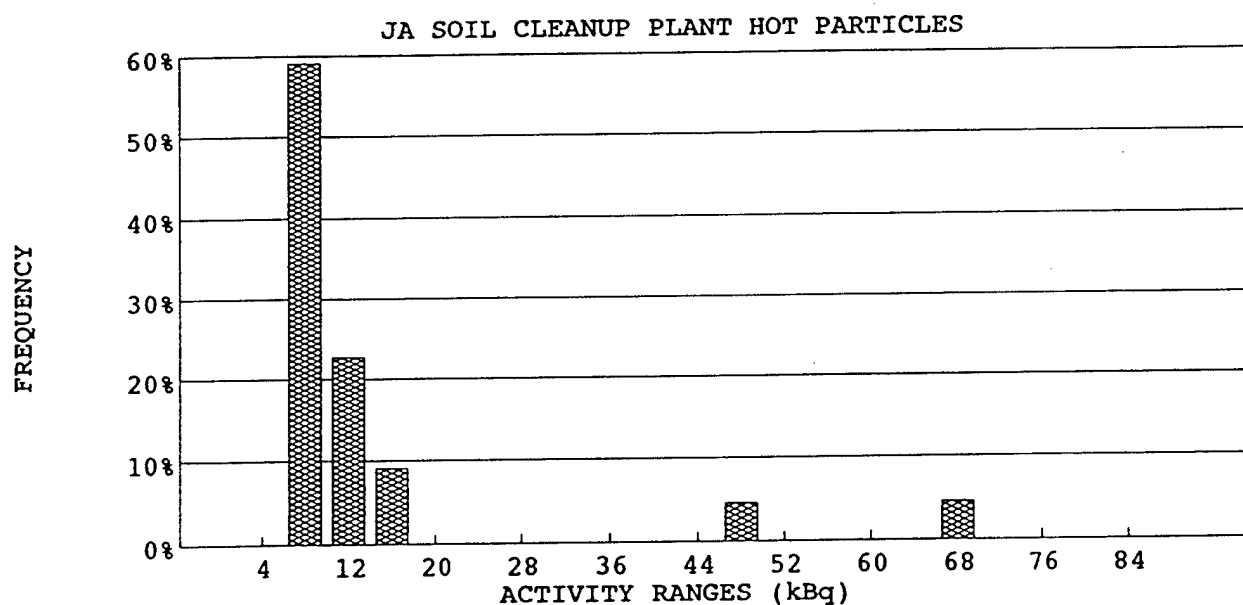
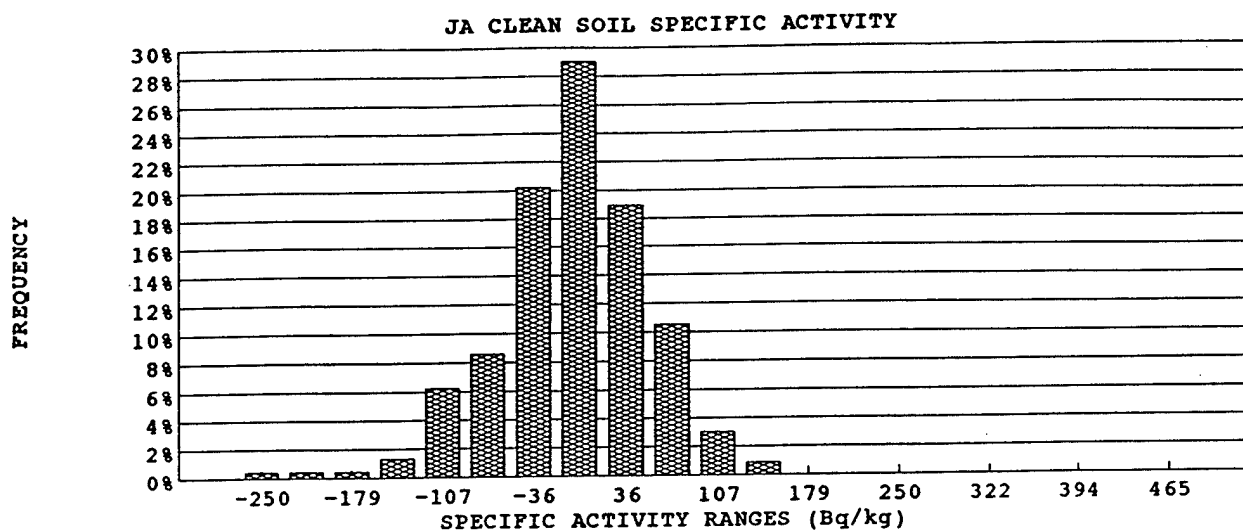
SORTER 1				17-Feb-94					
SORTER SOIL DENSITY		1.20 tons/m ³		BACKGROUND		0.67 ± 0.03 c/s			
SOIL		CONTAMINATED		CLEAN		TOTAL			
MASS TOTAL		0.3 tons		98.9 tons		99.2 tons			
MAXIMUM/SORT		4.9 kg		55.9 kg					
MINIMUM/SORT		0.7 kg		51.0 kg					
VOLUME IN-GROUND		0.2 yd ³		78.4 yd ³		78.7 yd ³			
WEIGHT RECOVERY (CLEAN/(HOT+CLEAN))		99.7%							
ACTIVITY				DISPERSED + PARTICLE					
				PARTICLE	HOT	CLEAN			
TOTAL				3,280 kBq	1,432 kBq	7,414 kBq			
MAXIMUM/SORT				174 kBq	62 kBq	20 kBq			
MINIMUM/SORT				3 kBq	0 Bq	-12 kBq			
SPECIFIC ACTIVITY					4,555 Bq/kg	75 Bq/kg			
SORTS									
20-SEC PROCESS PERIODS				1,775		UNEXP	PAUSE		
ALL 80 ELEMENTS SORT (MD>0&MND=0)				0		TIME	TIME		
NONE (AD=0 & MD=0 & MND>0)				1,501		08:38	None		
SOME (AD>0&0<MD<MNDmax&MND<MNDmax)				274		08:58			
UNEXPLAINED RECORDS				0		12:01			
0<AD<1kBq & MD>0				4		14:08			
AD=0 & MD>0				0					
AD<0 & MD >0				0					
2-SEC COUNT PERIODS				17,750					
2-SEC RECORDS WITH SORTS				208					
2-SEC RECORDS WITHOUT SORTS				17,542					
TOTAL PROCESS RECORDS (2-s SORTS and 20-s PERIODS)				1,983					
NONPROCESSING RECORDS (Test, calibration, etc)				4					
2-SEC SORT DETECTORS									
1 DET	151	72.6%	5 DET	1	0.5%				
2 DET	42	20.2%	6 DET	0	0.0%				
3 DET	10	4.8%	7 DET	0	0.0%				
4 DET	4	1.9%	8 DET	0	0.0%				
AVERAGE TIME BETWEEN 2-SEC SORTS				235.1 sec					
FREQUENCY DISTRIBUTIONS									
1-GATES SORTS			ACT_ND	NUM	SPEC_A	FREQ%	ACT_P	NUM	FREQ%
DET	SORTS	FREQ%	(Bq)	(#)	(Bq/kg)		(kBq)	(#)	
1	1	1.0%	-14000	1	-250	0.1%	4	13	6.3%
2	16	15.5%	-12000	0	-215	0.0%	8	99	47.6%
3	19	18.4%	-10000	2	-179	0.1%	12	36	17.3%
4	16	15.5%	-8000	8	-143	0.4%	16	10	4.8%
5	16	15.5%	-6000	5	-107	0.3%	20	6	2.9%
6	19	18.4%	-4000	17	-72	1.0%	24	10	4.8%
7	12	11.7%	-2000	56	-36	3.1%	28	3	1.4%
8	4	3.9%	0	144	0	8.1%	32	9	4.3%
TOTAL	103		2000	314	36	17.7%	36	0	0.0%
			4000	328	72	18.4%	40	2	1.0%
2-GATE SORTS			6000	391	107	22.0%	44	4	1.9%
DET	SORTS	FREQ%	8000	241	143	13.5%	48	2	1.0%
9	6	5.7%	10000	126	179	7.1%	52	2	1.0%
10	13	12.4%	12000	69	215	3.9%	56	1	0.5%
11	17	16.2%	14000	44	250	2.5%	60	0	0.0%
12	22	21.0%	16000	21	286	1.2%	64	0	0.0%
13	21	20.0%	18000	9	322	0.5%	68	1	0.5%
14	15	14.3%	20000	2	358	0.1%	72	2	1.0%
15	11	10.5%	22000	1	394	0.1%	76	1	0.5%
TOTAL	105		24000	0	429	0.0%	80	1	0.5%
			26000	0	465	0.0%	84	0	0.0%
			>28000	0	0	0.0%	>84	6	2.9%
			TOTAL	1,779			TOTAL	208	
EVENT TYPES		HPE	221	MPE	228	DISE	0		



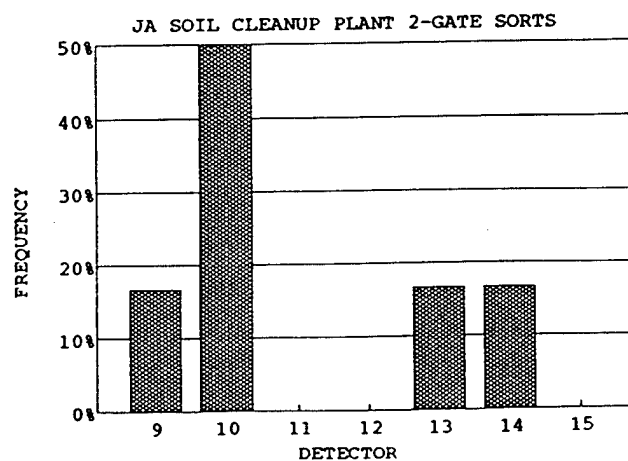
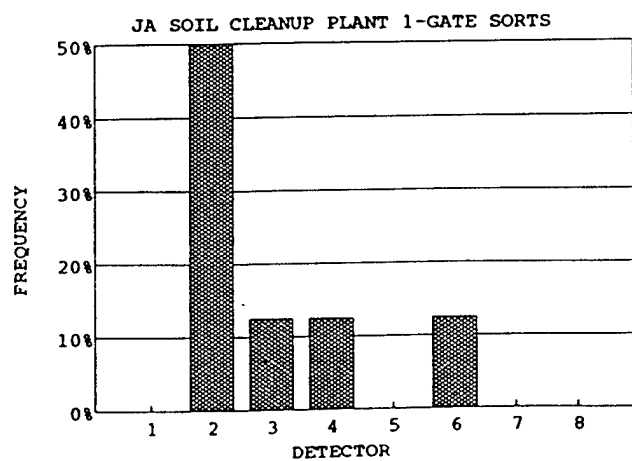
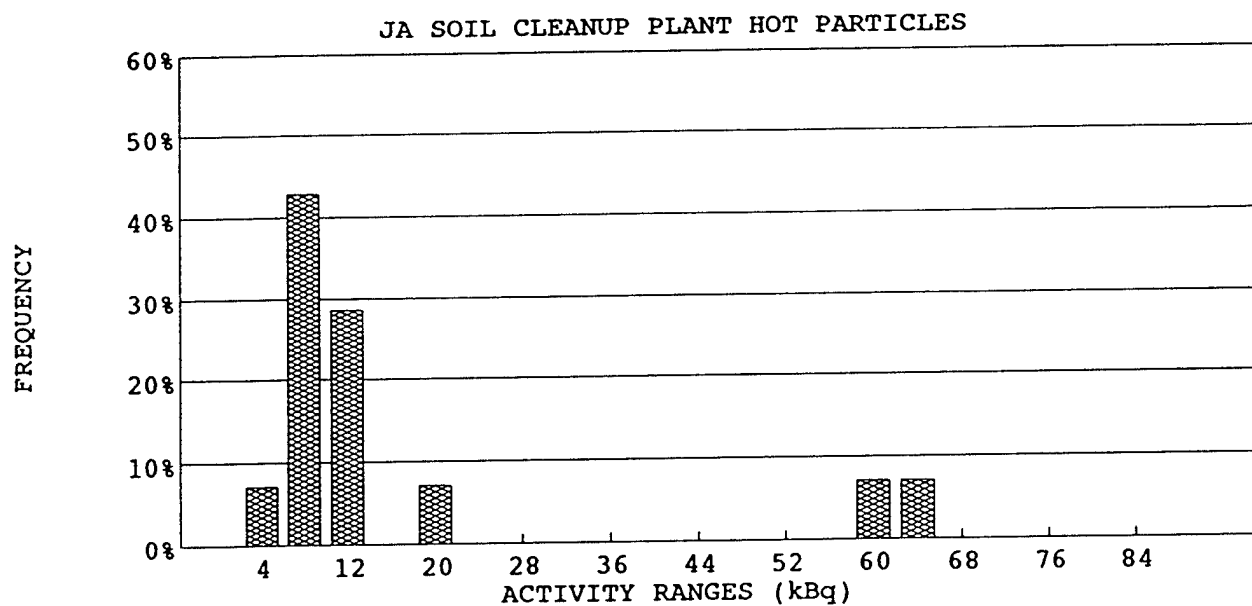
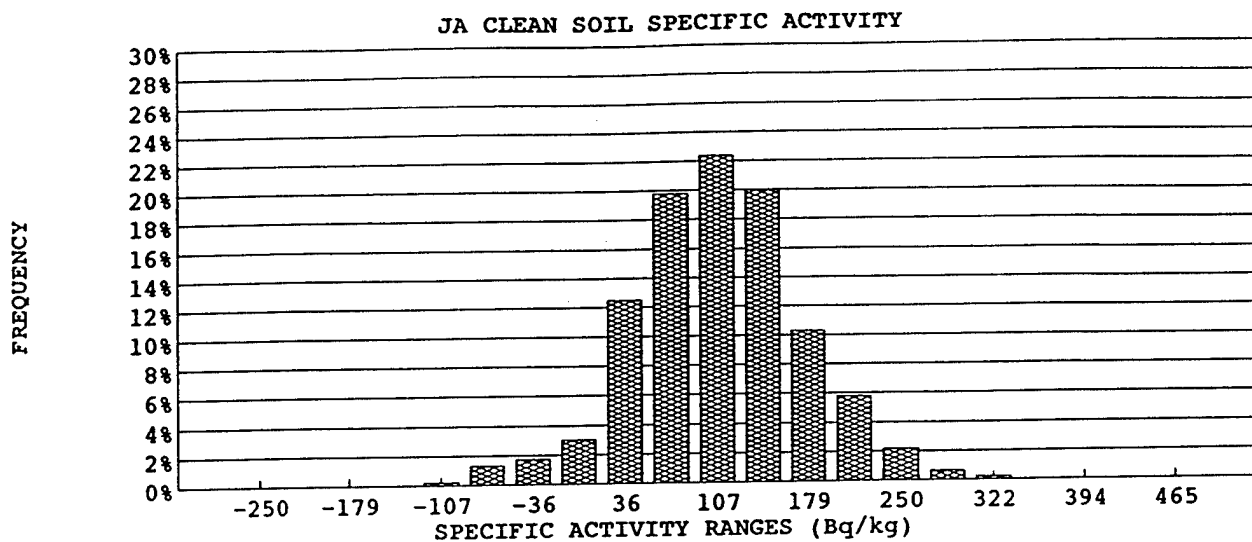
SORTER 2				17-Feb-94					
SORTER SOIL DENSITY			1.20 tons/m ³	BACKGROUND		0.78 ± 0.04 cA			
SOIL			CONTAMINATED		CLEAN	TOTAL			
MASS TOTAL			0.5 tons		98.5 tons	99.0 tons			
MAXIMUM/SORT			3.5 kg		55.9 kg				
MINIMUM/SORT			0.7 kg		52.4 kg				
VOLUME IN-GROUND			0.4 yd ³		78.1 yd ³	78.5 yd ³			
WEIGHT RECOVERY (CLEAN/(HOT+CLEAN))			99.5%						
ACTIVITY			PARTICLE		DISPERSED + PARTICLE				
					HOT	CLEAN			
TOTAL			3,922 kBq		2,191 kBq	5,972 kBq			
MAXIMUM/SORT			820 kBq		530 kBq	19 kBq			
MINIMUM/SORT			4 kBq		0 Bq	-16 kBq			
SPECIFIC ACTIVITY					4,556 Bq/kg	61 Bq/kg			
SORTS									
20-SEC PROCESS PERIODS				1,771		UNEXP	PAUSE		
ALL 80 ELEMENTS SORT (MD>0&MND=0)				0		TIME	TIME		
NONE (AD=0 & MD=0 & MND>0)				1,317		12:12	None		
SOME (AD>0&0<MD<MNDmax&MND<MNDmax)				454					
UNEXPLAINED RECORDS				0					
0<AD<1kBq & MD>0				1					
AD=0 & MD>0				0					
AD<0 & MD >0				0					
2-SEC COUNT PERIODS				17,710					
2-SEC RECORDS WITH SORTS				175					
2-SEC RECORDS WITHOUT SORTS				17,535					
TOTAL PROCESS RECORDS (2-s SORTS and 20-s PERIODS)				1,946					
NONPROCESSING RECORDS (Test, calibration, etc)				8					
2-SEC SORT DETECTORS									
1 DET		134	76.6%	5 DET	0	0.0%			
2 DET		35	20.0%	6 DET	0	0.0%			
3 DET		5	2.9%	7 DET	0	0.0%			
4 DET		1	0.6%	8 DET	0	0.0%			
AVERAGE TIME BETWEEN 2-SEC SORTS				264.3 sec					
FREQUENCY DISTRIBUTIONS									
1-GATESORTS			ACT_ND	NUM	SPEC_A	FREQ%	ACT_P	NUM	FREQ%
DET SORTS		FREQ%	(Bq)	(#)	(Bq/kg)		(kBq)	(#)	
1	11	11.6%	-14000	1	-250	0.1%	4	8	4.6%
2	21	22.1%	-12000	0	-215	0.0%	8	73	41.7%
3	18	18.9%	-10000	5	-179	0.3%	12	40	22.9%
4	18	18.9%	-8000	8	-143	0.4%	16	16	9.1%
5	9	9.5%	-6000	19	-107	1.1%	20	5	2.9%
6	7	7.4%	-4000	45	-72	2.5%	24	9	5.1%
7	10	10.5%	-2000	110	-36	6.2%	28	5	2.9%
8	1	1.1%	0	203	0	11.4%	32	2	1.1%
TOTAL		95	2000	303	36	17.0%	36	1	0.6%
			4000	346	72	19.4%	40	1	0.6%
2-GATESORTS			6000	300	107	16.9%	44	1	0.6%
DET SORTS		FREQ%	8000	200	143	11.2%	48	0	0.0%
9	20	25.0%	10000	109	179	6.1%	52	1	0.6%
10	14	17.5%	12000	59	215	3.3%	56	1	0.6%
11	14	17.5%	14000	35	250	2.0%	60	0	0.0%
12	10	12.5%	16000	18	286	1.0%	64	0	0.0%
13	11	13.8%	18000	12	322	0.7%	68	0	0.0%
14	4	5.0%	20000	6	358	0.3%	72	1	0.6%
15	7	8.8%	22000	0	394	0.0%	76	3	1.7%
TOTAL		80	24000	0	429	0.0%	80	2	1.1%
			26000	0	465	0.0%	84	1	0.6%
			>28000	0	0	0.0%	>84	5	2.9%
TOTAL				1,779	TOTAL				175
EVENT TYPES		HPE	182	MPE	505	DISE	0		



SORTER 3				17-Feb-94					
SORTER SOIL DENSITY		1.20 tons/m ³		BACKGROUND		0.60 ± 0.02 c/s			
SOIL		CONTAMINATED		CLEAN		TOTAL			
MASS TOTAL		0.0 tons		25.4 tons		25.5 tons			
MAXIMUM/SORT		2.8 kg		55.9 kg					
MINIMUM/SORT		0.7 kg		53.1 kg					
VOLUME IN-GROUND		0.0 yd ³		20.2 yd ³		20.2 yd ³			
WEIGHT RECOVERY (CLEAN/(HOT+CLEAN))		99.8%							
ACTIVITY		PARTICLE		DISPERSED + PARTICLE					
				HOT		CLEAN			
TOTAL		269 kBq		156 kBq		(525)kBq			
MAXIMUM/SORT		68 kBq		46 kBq		8 kBq			
MINIMUM/SORT		4 kBq		0 Bq		-10 kBq			
SPECIFIC ACTIVITY				3,647 Bq/kg		(21)Bq/kg			
SORTS									
20-SEC PROCESS PERIODS				456					
ALL 80 ELEMENTS SORT (MD>0&MND=0)				0					
NONE (AD=0 & MD=0 & MND>0)				409					
SOME (AD>0&0<MD<MNDmax&MND<MNDmax)				47					
UNEXPLAINED RECORDS				0					
0<AD<1kBq & MD>0				0					
AD=0 & MD>0				0					
AD<0 & MD >0				0					
2-SEC COUNT PERIODS				4,560					
2-SEC RECORDS WITH SORTS				22					
2-SEC RECORDS WITHOUT SORTS				4,538					
TOTAL PROCESS RECORDS (2-s SORTS and 20-s PERIODS)				478					
NONPROCESSING RECORDS (Test, calibration, etc)				9					
2-SEC SORT DETECTORS									
1 DET		18	81.8%	5 DET	0	0.0%			
2 DET		3	13.6%	6 DET	0	0.0%			
3 DET		1	4.5%	7 DET	0	0.0%			
4 DET		0	0.0%	8 DET	0	0.0%			
AVERAGE TIME BETWEEN 2-SEC SORTS				506.7 sec					
FREQUENCY DISTRIBUTIONS									
1-GATE SORTS			ACT_ND	NUM	SPEC_A	FREQ%	ACT_P	NUM	FREQ%
DET	SORTS	FREQ%	(Bq)	(#)	(Bq/kg)		(kBq)	(#)	
1	0	0.0%	-14000	2	-250	0.4%	4	0	0.0%
2	0	0.0%	-12000	2	-215	0.4%	8	13	59.1%
3	0	0.0%	-10000	2	-179	0.4%	12	5	22.7%
4	0	0.0%	-8000	6	-143	1.3%	16	2	9.1%
5	2	20.0%	-6000	29	-107	6.2%	20	0	0.0%
6	2	20.0%	-4000	40	-72	8.6%	24	0	0.0%
7	6	60.0%	-2000	94	-36	20.2%	28	0	0.0%
8	0	0.0%	0	135	0	29.0%	32	0	0.0%
TOTAL	10		2000	88	36	18.9%	36	0	0.0%
			4000	49	72	10.5%	40	0	0.0%
2-GATE SORTS			6000	14	107	3.0%	44	0	0.0%
DET	SORTS	FREQ%	8000	4	143	0.9%	48	1	4.5%
9	0	0.0%	10000	0	179	0.0%	52	0	0.0%
10	0	0.0%	12000	0	215	0.0%	56	0	0.0%
11	1	8.3%	14000	0	250	0.0%	60	0	0.0%
12	2	16.7%	16000	0	286	0.0%	64	0	0.0%
13	2	16.7%	18000	0	322	0.0%	68	1	4.5%
14	4	33.3%	20000	0	358	0.0%	72	0	0.0%
15	3	25.0%	22000	0	394	0.0%	76	0	0.0%
TOTAL	12		24000	0	429	0.0%	80	0	0.0%
			26000	0	465	0.0%	84	0	0.0%
			>28000	0	0	0.0%	>84	0	0.0%
			TOTAL	465			TOTAL	22	
EVENT TYPES		HPE	25	MPE	36	DISE	0		



SORTER 4				17-Feb-94					
SORTER SOIL DENSITY		1.20 tons/m³		BACKGROUND		0.60 ± 0.02 c/s			
SOIL		CONTAMINATED		CLEAN		TOTAL			
MASS TOTAL		0.1 tons		25.7 tons		25.8 tons			
MAXIMUM/SORT		2.1 kg		55.9 kg					
MINIMUM/SORT		0.7 kg		53.8 kg					
VOLUME IN-GROUND		0.1 yd³		20.4 yd³		20.5 yd³			
WEIGHT RECOVERY (CLEAN/(HOT+CLEAN))		99.7%							
ACTIVITY				DISPERSED + PARTICLE					
				PARTICLE		HOT		CLEAN	
TOTAL				214 kBq		215 kBq		2,332 kBq	
MAXIMUM/SORT				62 kBq		41 kBq		17 kBq	
MINIMUM/SORT				4 kBq		0 Bq		-8 kBq	
SPECIFIC ACTIVITY						2,818 Bq/kg		91 Bq/kg	
SORTS									
20-SEC PROCESS PERIODS				462				UNEXP PAUSE	
ALL 80 ELEMENTS SORT (MD>0&MND=0)				0				TIME TIME	
NONE (AD=0 & MD=0 & MND>0)				373				None None	
SOME (AD>0&0<MD<MNDmax&MND<MNDmax)				89					
UNEXPLAINED RECORDS				0					
0<AD<1kBq & MD>0				0					
AD=0 & MD>0				0					
AD<0 & MD >0				0					
2-SEC COUNT PERIODS				4,620					
2-SEC RECORDS WITH SORTS				14					
2-SEC RECORDS WITHOUT SORTS				4,606					
TOTAL PROCESS RECORDS (2-s SORTS and 20-s PERIODS)				476					
NONPROCESSING RECORDS (Test, calibration, etc)				3					
2-SEC SORT DETECTORS									
1 DET		11	78.6%	5 DET		0	0.0%		
2 DET		3	21.4%	6 DET		0	0.0%		
3 DET		0	0.0%	7 DET		0	0.0%		
4 DET		0	0.0%	8 DET		0	0.0%		
AVERAGE TIME BETWEEN 2-SEC SORTS				840.0 sec					
FREQUENCY DISTRIBUTIONS									
1-GATESORTS			ACT_ND	NUM	SPEC_A	FREQ%	ACT_P	NUM	FREQ%
DET	SORTS	FREQ%	(Bq)	(#)	(Bq/kg)		(kBq)	(#)	
1	0	0.0%	-14000	0	-250	0.0%	4	1	7.1%
2	5	62.5%	-12000	0	-215	0.0%	8	6	42.9%
3	1	12.5%	-10000	0	-179	0.0%	12	4	28.6%
4	1	12.5%	-8000	0	-143	0.0%	16	0	0.0%
5	0	0.0%	-6000	1	-107	0.2%	20	1	7.1%
6	1	12.5%	-4000	6	-72	1.3%	24	0	0.0%
7	0	0.0%	-2000	8	-36	1.7%	28	0	0.0%
8	0	0.0%	0	14	0	3.0%	32	0	0.0%
TOTAL	8		2000	58	36	12.5%	36	0	0.0%
			4000	92	72	19.8%	40	0	0.0%
			6000	104	107	22.4%	44	0	0.0%
2-GATESORTS			8000	93	143	20.0%	48	0	0.0%
DET	SORTS	FREQ%	10000	48	179	10.3%	52	0	0.0%
9	1	16.7%	12000	27	215	5.8%	56	0	0.0%
10	3	50.0%	14000	10	250	2.2%	60	1	7.1%
11	0	0.0%	16000	3	286	0.6%	64	1	7.1%
12	0	0.0%	18000	1	322	0.2%	68	0	0.0%
13	1	16.7%	20000	0	358	0.0%	72	0	0.0%
14	1	16.7%	22000	0	394	0.0%	76	0	0.0%
15	0	0.0%	24000	0	429	0.0%	80	0	0.0%
TOTAL	6		26000	0	465	0.0%	84	0	0.0%
			>28000	0	0	0.0%	>84	0	0.0%
			TOTAL	465			TOTAL	14	
EVENT TYPES		HPE	13	MPE	96	DISE	0		



WORK HISTORY - JA SOIL CLEANUP PLANT

18-Feb-94

WORK DAY START	06:00 AM	WORK DAY END	16:30 PM
LUNCH START	11:00 AM	TIME LOST DURING LUNCH	0.0 HR

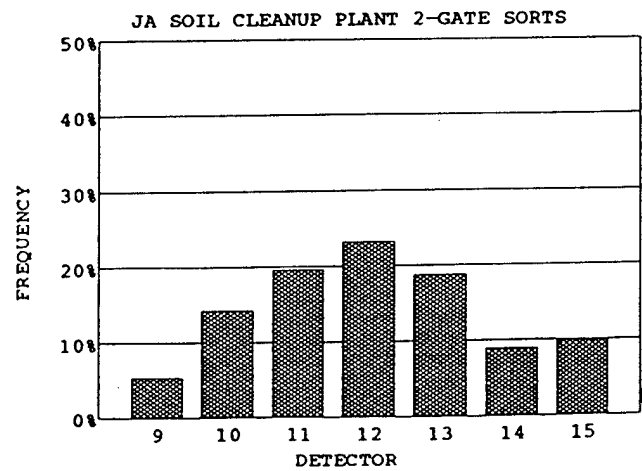
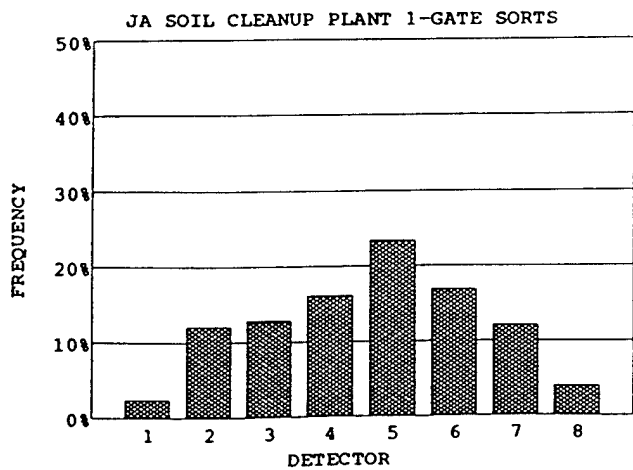
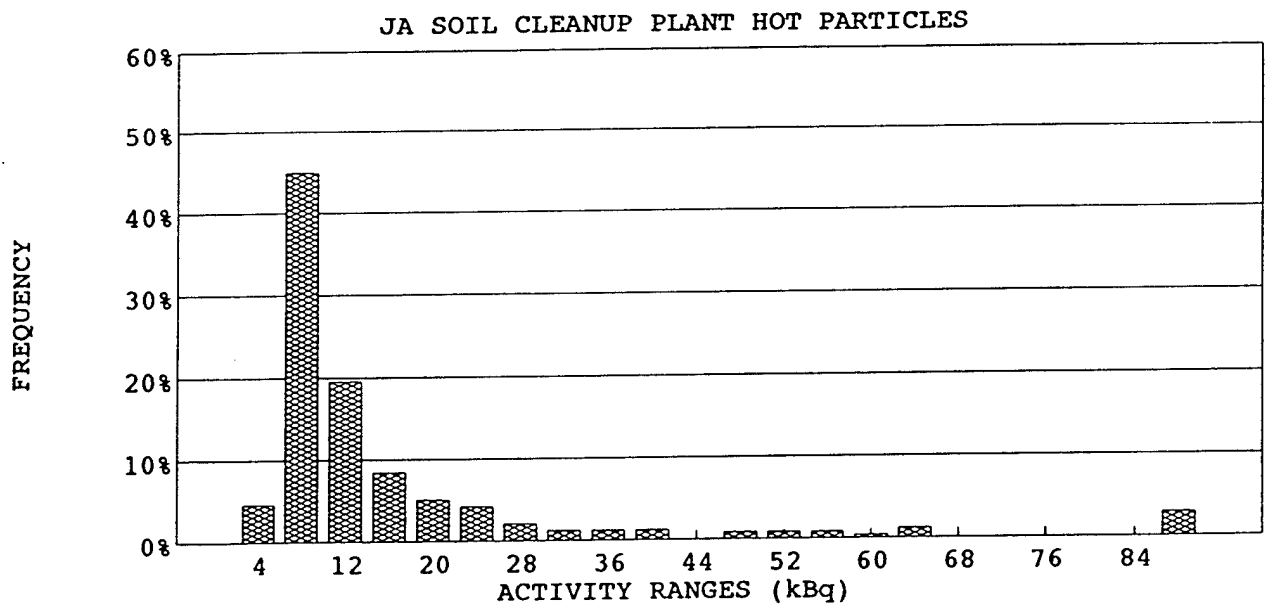
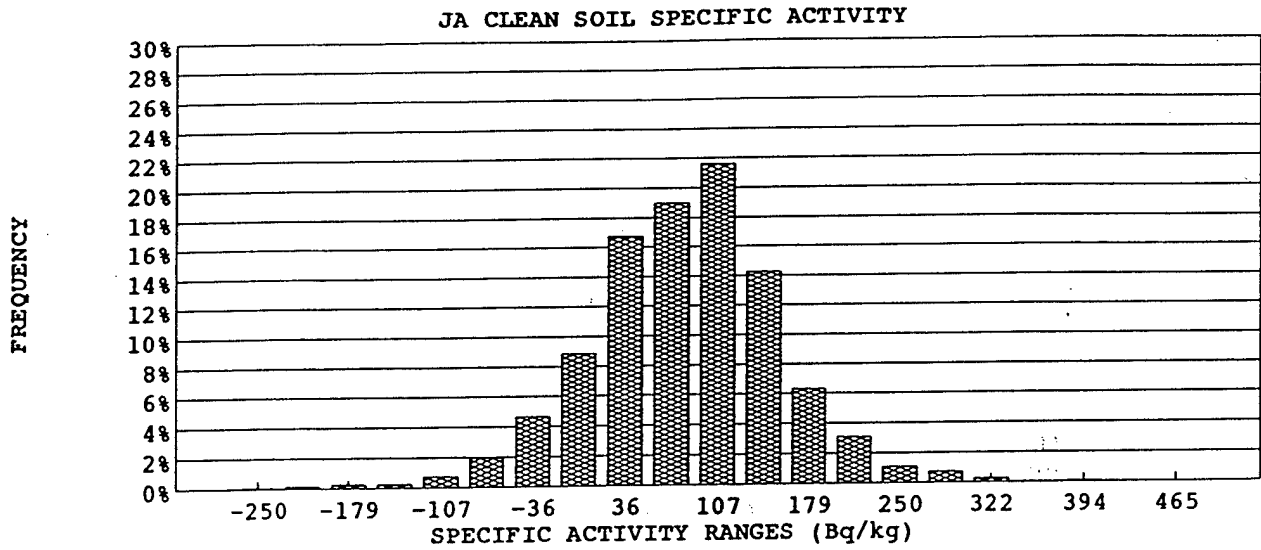
	SORTER 1	SORTER 2	SORTER 3	SORTER 4	TOTAL (sorter hours)
WORK HOURS	10.5 hr	10.5 hr	10.5 hr	10.5 hr	42.0 hr
SORTER AVAILABLE HOURS	10.3 hr	10.3 hr	0.0 hr	0.0 hr	20.7 hr
SORTER START-UP	06:00	06:00	NA	NA	
START SOIL PROCESSING	06:19	06:18	NA	NA	
TIME REQUIRED TO START-UP	0.3 hr	0.3 hr	0.0 hr	0.0 hr	0.6 hr
SORTER SHUT-DOWN	16:20	16:20	NA	NA	
END SOIL PROCESSING	16:06	16:03	NA	NA	
TIME REQUIRED TO SHUT DOWN	0.2 hr	0.3 hr	0.0 hr	0.0 hr	0.5 hr
ACTUAL PROCESS HOURS	9.7 hr	9.7 hr	0.0 hr	0.0 hr	19.4 hr
DOWN-TIME	0.6 hr	0.6 hr	0.0 hr	0.0 hr	1.2 hr
SYSTEM PAUSE	0.0 hr	0.0 hr	0.0 hr	0.0 hr	0.0 hr
SORTER NONAVAILABLE TIME	0.2 hr	0.2 hr	10.0 hr	10.0 hr	20.3 hr
AUTHORIZED DELAY TIME	0.0 hr	0.0 hr	10.0 hr	10.0 hr	20.0 hr
PLANT PERFORMANCE					94.1%
PRODUCTIVITY					46.3%

PRODUCTIVITY

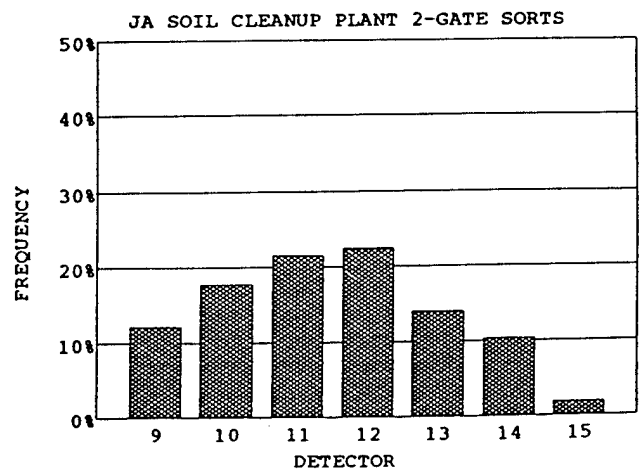
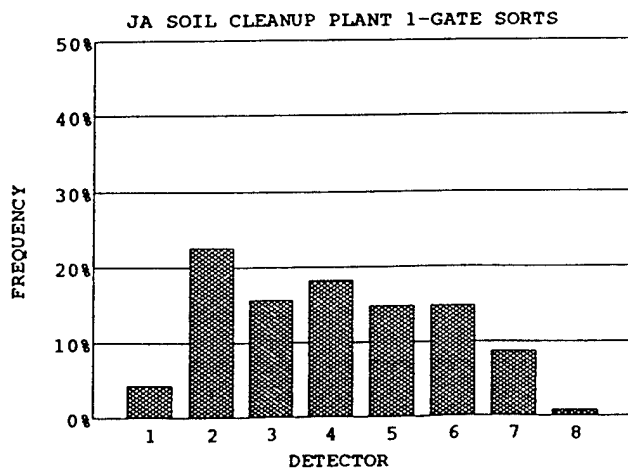
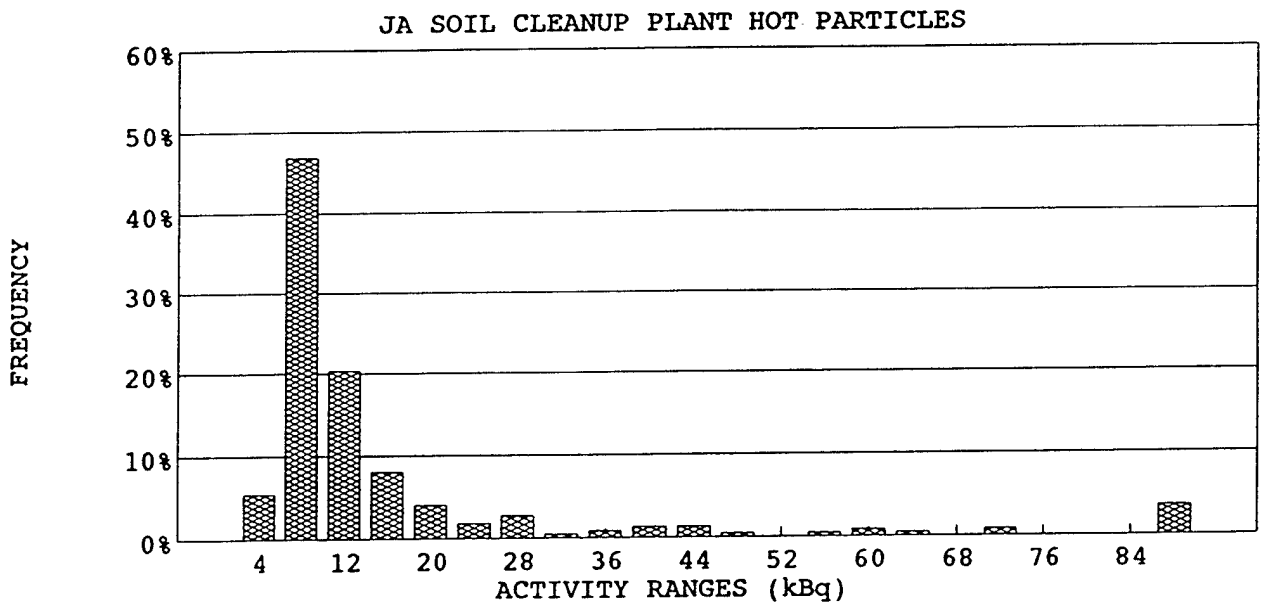
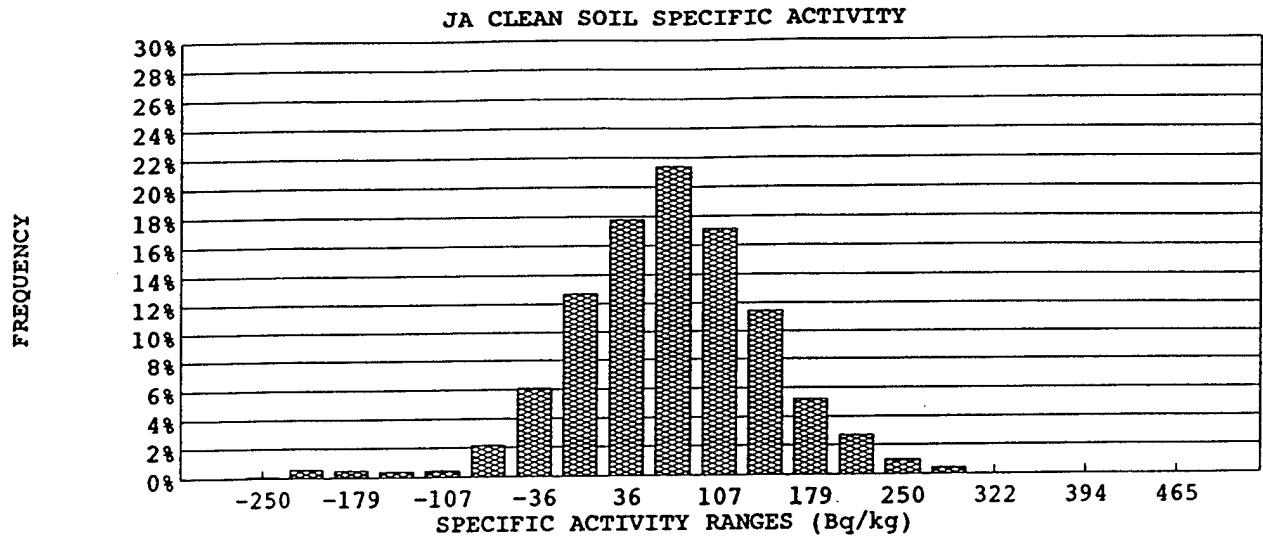
Date	18-Feb-94	Excused Delays for day (sorter-hrs)	20 hr
Contract day (from 6 Sep)	131	Excused delays for contract (sorter-hrs)	1,766 hr
Current Contract week	22	Excused delay days (plant-days)	44 days
		Excused delay months (plant-month)	1.70 months
Soil production for Day	196 MT		
Cumulative Soil Production for Week	1,000 MT	Percent of contract completed	34.6%
Total Soil production for contract		Tons Ahead or Behind Schedule	1,745 MT
Since 6 Sep 93	33,046 MT	Days ahead or behind schedule	6 days
Since 6 Aug 93	34,637 MT		
Total Soil production for project	60,923 MT		

MT = metric tons

SORTER 1				18-Feb-94					
SORTER SOIL DENSITY		1.20 tons/m ³		BACKGROUND		0.69 ± 0.04 c/s			
SOIL		CONTAMINATED		CLEAN		TOTAL			
MASS TOTAL		0.3 tons		97.7 tons		98.0 tons			
MAXIMUM/SORT		4.2 kg		55.9 kg					
MINIMUM/SORT		0.7 kg		51.7 kg					
VOLUME IN-GROUND		0.3 yd ³		77.5 yd ³		77.7 yd ³			
WEIGHT RECOVERY (CLEAN/(HOT+CLEAN))		99.7%							
ACTIVITY				DISPERSED + PARTICLE					
		PARTICLE		HOT		CLEAN			
TOTAL		3,935 kBq		1,678 kBq		6,430 kBq			
MAXIMUM/SORT		281 kBq		172 kBq		20 kBq			
MINIMUM/SORT		3 kBq		0 Bq		-12 kBq			
SPECIFIC ACTIVITY				5,102 Bq/kg		66 Bq/kg			
SORTS									
20-SEC PROCESS PERIODS				1,754		UNEXP PAUSE			
ALL 80 ELEMENTS SORT (MD>0&MND=0)				0		TIME TIME			
NONE (AD=0 & MD=0 & MND>0)				1,474		12:49 None			
SOME (AD>0&0<MD<MNDmax&MND<MNDmax)				280					
UNEXPLAINED RECORDS				0					
0<AD<1kBq & MD>0				1					
AD=0 & MD>0				0					
AD<0 & MD >0				0					
2-SEC COUNT PERIODS				17,540					
2-SEC RECORDS WITH SORTS				236					
2-SEC RECORDS WITHOUT SORTS				17,304					
TOTAL PROCESS RECORDS (2-s SORTS and 20-s PERIODS)				1,990					
NONPROCESSING RECORDS (Test, calibration, etc)				14					
2-SEC SORT DETECTORS									
1 DET		180	76.3%	5 DET		0	0.0%		
2 DET		49	20.8%	6 DET		0	0.0%		
3 DET		6	2.5%	7 DET		0	0.0%		
4 DET		1	0.4%	8 DET		0	0.0%		
AVERAGE TIME BETWEEN 2-SEC SORTS				194.9 sec					
FREQUENCY DISTRIBUTIONS									
1-GATE SORTS			ACT_ND	NUM	SPEC_A	FREQ%	ACT_P	NUM	FREQ%
DET	SORTS	FREQ%	(Bq)	(#)	(Bq/kg)		(kBq)	(#)	
1	3	2.4%	-14000	1	-250	0.1%	4	11	4.7%
2	15	12.1%	-12000	2	-215	0.1%	8	106	44.9%
3	16	12.9%	-10000	5	-179	0.3%	12	46	19.5%
4	20	16.1%	-8000	5	-143	0.3%	16	20	8.5%
5	29	23.4%	-6000	13	-107	0.7%	20	12	5.1%
6	21	16.9%	-4000	34	-72	1.9%	24	10	4.2%
7	15	12.1%	-2000	82	-36	4.6%	28	5	2.1%
8	5	4.0%	0	156	0	8.8%	32	3	1.3%
TOTAL	124		2000	296	36	16.7%	36	3	1.3%
			4000	335	72	18.9%	40	3	1.3%
2-GATE SORTS			6000	382	107	21.6%	44	0	0.0%
DET	SORTS	FREQ%	8000	252	143	14.3%	48	2	0.8%
9	6	5.4%	10000	112	179	6.3%	52	2	0.8%
10	16	14.3%	12000	55	215	3.1%	56	2	0.8%
11	22	19.6%	14000	19	250	1.1%	60	1	0.4%
12	26	23.2%	16000	13	286	0.7%	64	3	1.3%
13	21	18.8%	18000	5	322	0.3%	68	0	0.0%
14	10	8.9%	20000	0	358	0.0%	72	0	0.0%
15	11	9.8%	22000	1	394	0.1%	76	0	0.0%
TOTAL	112		24000	0	429	0.0%	80	0	0.0%
			26000	0	465	0.0%	84	0	0.0%
			>28000	0	0	0.0%	>84	7	3.0%
			TOTAL	1,768			TOTAL	236	
EVENT TYPES		HPE	236	MPE	234	DISE	0		



SORTER 2				18-Feb-94					
SORTER SOIL DENSITY		1.20 tons/m ³		BACKGROUND		0.80 ± 0.04 c/s			
SOIL		CONTAMINATED		CLEAN		TOTAL			
MASS TOTAL		0.5 tons		97.1 tons		97.6 tons			
MAXIMUM/SORT		5.6 kg		55.9 kg					
MINIMUM/SORT		0.7 kg		50.3 kg					
VOLUME IN-GROUND		0.4 yd ³		76.9 yd ³		77.4 yd ³			
WEIGHT RECOVERY (CLEAN/(HOT+CLEAN))		99.4%							
ACTIVITY		PARTICLE		DISPERSED + PARTICLE					
				HOT		CLEAN			
TOTAL		4,501 kBq		2,363 kBq		5,059 kBq			
MAXIMUM/SORT		507 kBq		370 kBq		15 kBq			
MINIMUM/SORT		2 kBq		0 Bq		-18 kBq			
SPECIFIC ACTIVITY				4,350 Bq/kg		52 Bq/kg			
SORTS									
20-SEC PROCESS PERIODS				1,746		UNEXP PAUSE			
ALL 80 ELEMENTS SORT (MD>0&MND=0)				0		TIME TIME			
NONE (AD=0 & MD=0 & MND>0)				1,240		10:26 None			
SOME (AD>0&0<MD<MNDmax&MND<MNDmax)				506					
UNEXPLAINED RECORDS				0					
0<AD<1kBq & MD>0				1					
AD=0 & MD>0				0					
AD<0 & MD >0				0					
2-SEC COUNT PERIODS				17,460					
2-SEC RECORDS WITH SORTS				222					
2-SEC RECORDS WITHOUT SORTS				17,238					
TOTAL PROCESS RECORDS (2-s SORTS and 20-s PERIODS)				1,968					
NONPROCESSING RECORDS (Test, calibration, etc)				14					
2-SEC SORT DETECTORS									
1 DET		169	76.1%	5 DET	0	0.0%			
2 DET		44	19.8%	6 DET	0	0.0%			
3 DET		7	3.2%	7 DET	0	0.0%			
4 DET		2	0.9%	8 DET	0	0.0%			
AVERAGE TIME BETWEEN 2-SEC SORTS				206.6 sec					
FREQUENCY DISTRIBUTIONS									
1-GATESORTS			ACT_ND	NUM	SPEC_A	FREQ%	ACT_P	NUM	FREQ%
DET	SORTS	FREQ%	(Bq)	(#)	(Bq/kg)		(kBq)	(#)	
1	5	4.3%	-14000	2	-250	0.1%	4	12	5.4%
2	26	22.6%	-12000	10	-215	0.6%	8	104	46.8%
3	18	15.7%	-10000	9	-179	0.5%	12	45	20.3%
4	21	18.3%	-8000	7	-143	0.4%	16	18	8.1%
5	17	14.8%	-6000	8	-107	0.5%	20	9	4.1%
6	17	14.8%	-4000	38	-72	2.2%	24	4	1.8%
7	10	8.7%	-2000	107	-36	6.1%	28	6	2.7%
8	1	0.9%	0	223	0	12.7%	32	1	0.5%
TOTAL	115		2000	313	36	17.8%	36	2	0.9%
			4000	376	72	21.4%	40	3	1.4%
			6000	301	107	17.1%	44	3	1.4%
2-GATESORTS			8000	201	143	11.4%	48	1	0.5%
DET	SORTS	FREQ%							
9	13	12.1%	10000	91	179	5.2%	52	0	0.0%
10	19	17.8%	12000	48	215	2.7%	56	1	0.5%
11	23	21.5%	14000	18	250	1.0%	60	2	0.9%
12	24	22.4%	16000	8	286	0.5%	64	1	0.5%
13	15	14.0%	18000	0	322	0.0%	68	0	0.0%
14	11	10.3%	20000	0	358	0.0%	72	2	0.9%
15	2	1.9%	22000	0	394	0.0%	76	0	0.0%
TOTAL	107		24000	0	429	0.0%	80	0	0.0%
			26000	0	465	0.0%	84	0	0.0%
			>28000	0	0	0.0%	>84	8	3.6%
			TOTAL	1,760			TOTAL	222	
EVENT TYPES		HPE	230	MPE	546	DISE	0		



WORK HISTORY - JA SOIL CLEANUP PLANT

19-Feb-94

WORK DAY START	05:00 AM	WORK DAY END	15:30 PM
LUNCH START	11:00 AM	TIME LOST DURING LUNCH	0.0 HR

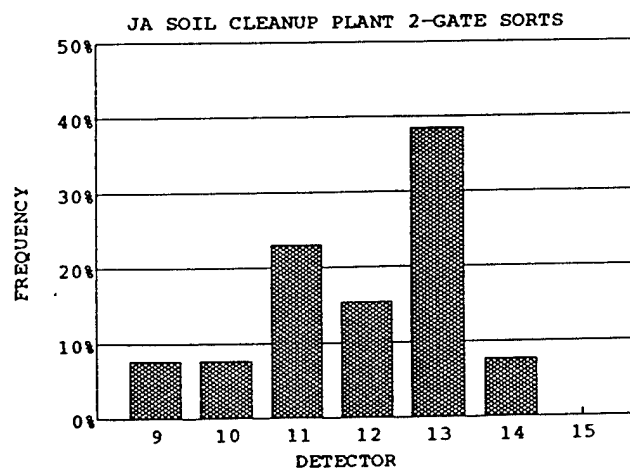
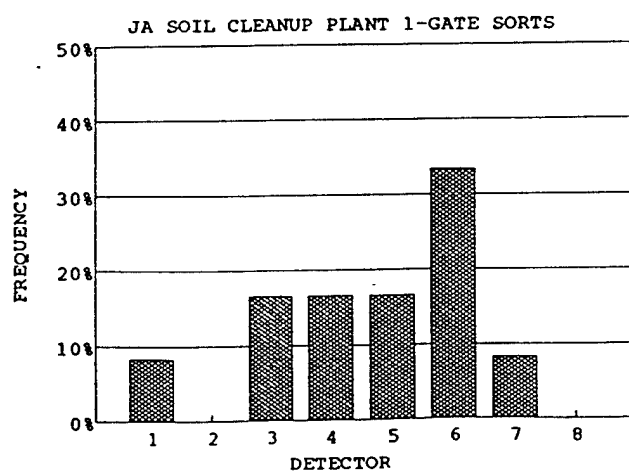
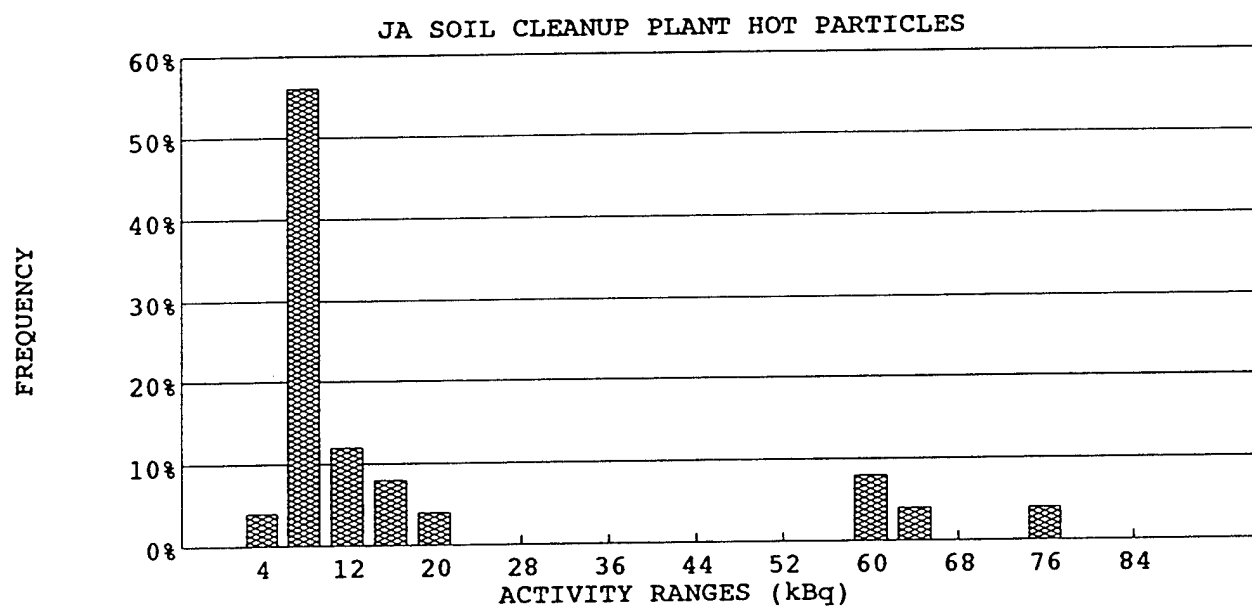
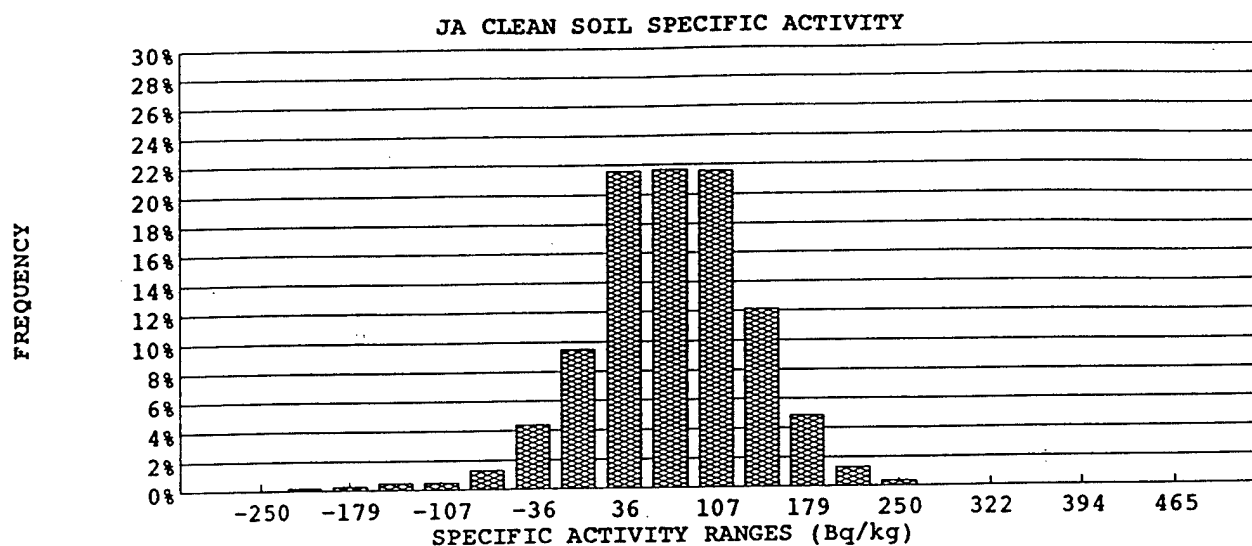
	SORTER 1	SORTER 2	SORTER 3	SORTER 4	TOTAL (sorter hours)
WORK HOURS	10.5 hr	10.5 hr	10.5 hr	10.5 hr	42.0 hr
SORTER AVAILABLE HOURS	6.8 hr	6.8 hr	0.0 hr	0.0 hr	13.5 hr
SORTER START-UP	06:30	06:30	NA	NA	
START SOIL PROCESSING	06:53	06:53	NA	NA	
TIME REQUIRED TO START-UP	0.4 hr	0.4 hr	0.0 hr	0.0 hr	0.8 hr
SORTER SHUT-DOWN	13:15	13:15	NA	NA	
END SOIL PROCESSING	12:55	12:56	NA	NA	
TIME REQUIRED TO SHUT DOWN	0.3 hr	0.3 hr	0.0 hr	0.0 hr	0.6 hr
ACTUAL PROCESS HOURS	6.0 hr	6.1 hr	0.0 hr	0.0 hr	12.1 hr
DOWN-TIME	0.7 hr	0.7 hr	0.0 hr	0.0 hr	1.4 hr
SYSTEM PAUSE	0.0 hr	0.0 hr	0.0 hr	0.0 hr	0.0 hr
SORTER NONAVAILABLE TIME	3.7 hr	3.7 hr	10.0 hr	10.0 hr	27.5 hr
AUTHORIZED DELAY TIME	0.0 hr	0.0 hr	10.0 hr	10.0 hr	20.0 hr
PLANT PERFORMANCE					89.6%
PRODUCTIVITY					28.8%

PRODUCTIVITY

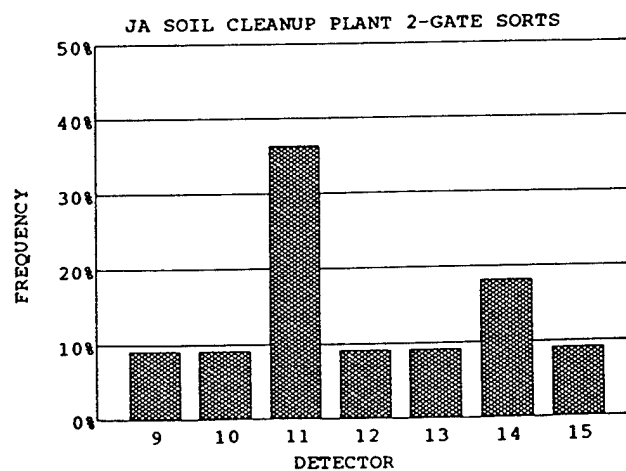
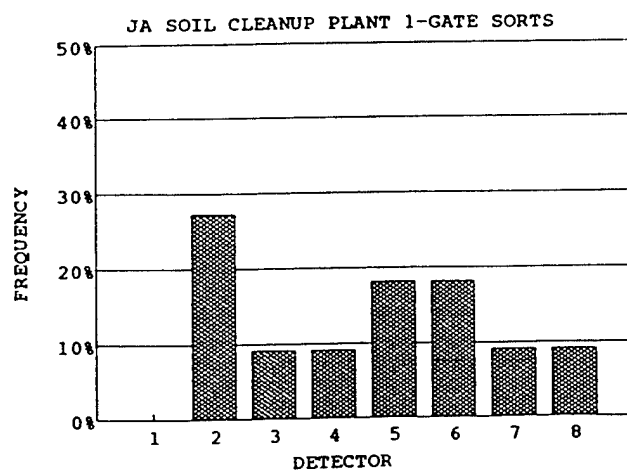
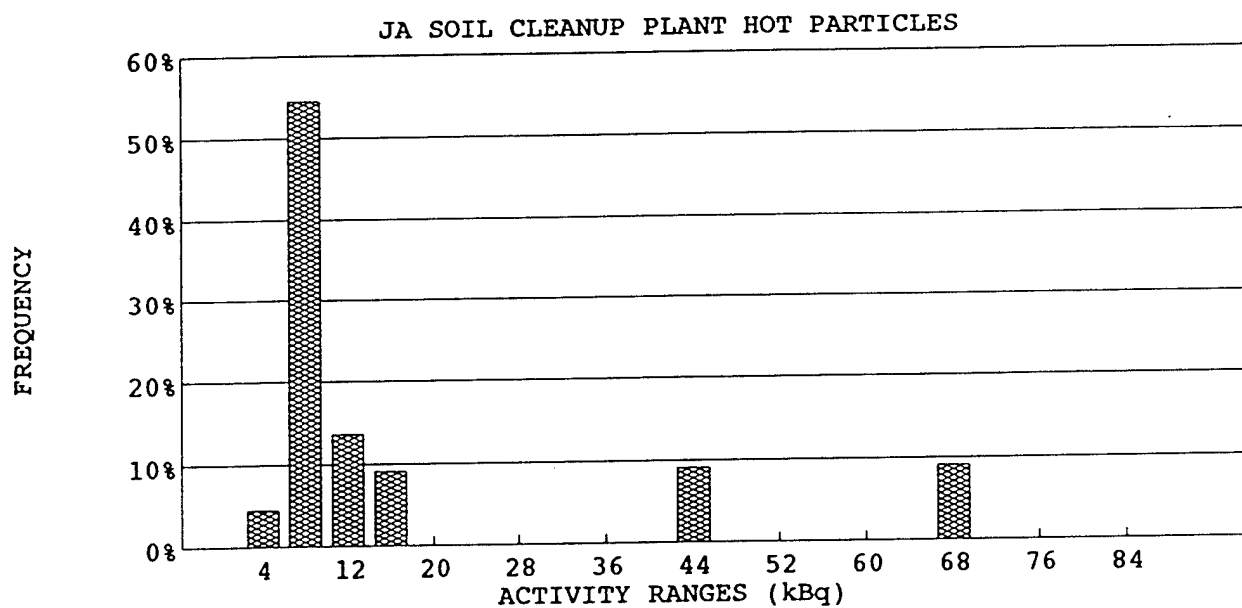
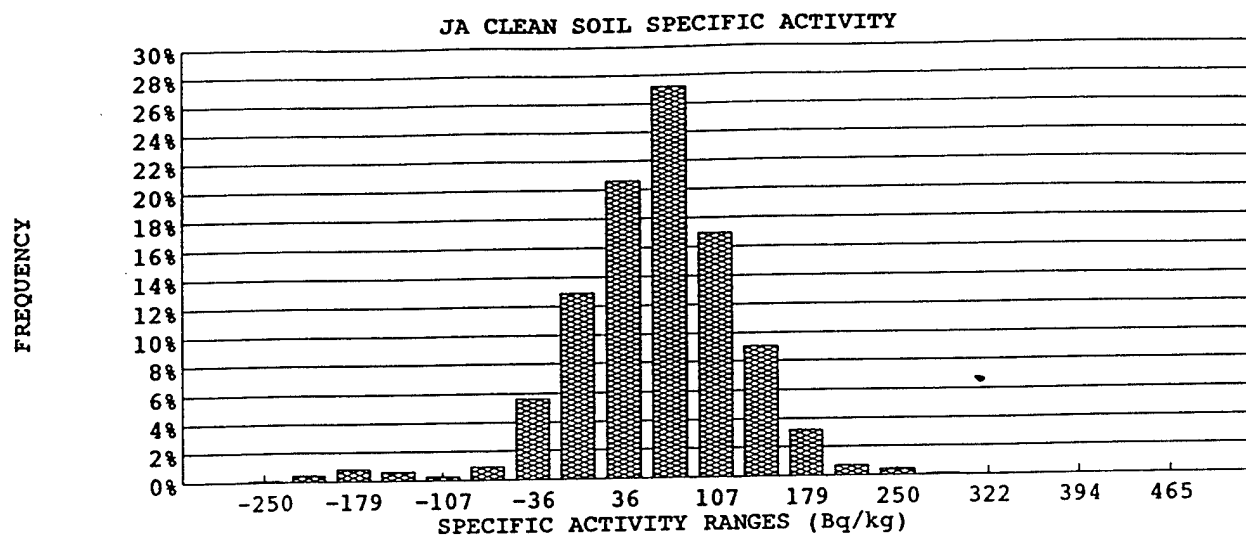
Date	19-Feb-94	Excused Delays for day (sorter-hrs)	20 hr
Contract day (from 6 Sep)	132	Excused delays for contract (sorter-hrs)	1,786 hr
Current Contract week	22	Excused delay days (plant-days)	45 days
		Excused delay months (plant-month)	1.72 months
Soil production for Day	122 MT		
Cumulative Soil Production for Week	1,122 MT	Percent of contract completed	34.8%
Total Soil production for contract		Tons Ahead or Behind Schedule	1,708 MT
Since 6 Sep 93	33,168 MT	Days ahead or behind schedule	5 days
Since 6 Aug 93	34,759 MT		
Total Soil production for project	61,045 MT		

MT = metric tons

SORTER 1				19-Feb-94					
SORTER SOIL DENSITY		1.20 tons/m ³		BACKGROUND		0.66 ± 0.02 c/s			
SOIL		CONTAMINATED		CLEAN		TOTAL			
MASS TOTAL		0.1 tons		60.8 tons		60.8 tons			
MAXIMUM/SORT		2.8 kg		55.9 kg					
MINIMUM/SORT		0.7 kg		53.1 kg					
VOLUME IN-GROUND		0.0 yd ³		48.2 yd ³		48.2 yd ³			
WEIGHT RECOVERY (CLEAN/(HOT+CLEAN))		99.9%							
ACTIVITY				DISPERSED + PARTICLE					
		PARTICLE		HOT		CLEAN			
TOTAL		400 kBq		234 kBq		3,351 kBq			
MAXIMUM/SORT		72 kBq		46 kBq		13 kBq			
MINIMUM/SORT		4 kBq		0 Bq		-14 kBq			
SPECIFIC ACTIVITY				3,719 Bq/kg		55 Bq/kg			
SORTS									
20-SEC PROCESS PERIODS				1,088		UNEXP PAUSE			
ALL 80 ELEMENTS SORT (MD>0&MND=0)				0		TIME TIME			
NONE (AD=0 & MD=0 & MND>0)				1,015		None None			
SOME (AD>0&0<MD<MNDmax&MND<MNDmax)				73					
UNEXPLAINED RECORDS				0					
0<AD<1kBq & MD>0				0					
AD=0 & MD>0				0					
AD<0 & MD >0				0					
2-SEC COUNT PERIODS				10,880					
2-SEC RECORDS WITH SORTS				25					
2-SEC RECORDS WITHOUT SORTS				10,855					
TOTAL PROCESS RECORDS (2-s SORTS and 20-s PERIODS)				1,113					
NONPROCESSING RECORDS (Test, calibration, etc)				6					
2-SEC SORT DETECTORS									
1 DET		17	68.0%	5 DET	0	0.0%			
2 DET		6	24.0%	6 DET	0	0.0%			
3 DET		1	4.0%	7 DET	0	0.0%			
4 DET		1	4.0%	8 DET	0	0.0%			
AVERAGE TIME BETWEEN 2-SEC SORTS				1280.0 sec					
FREQUENCY DISTRIBUTIONS									
1-GATE SORTS			ACT_ND	NUM	SPEC_A	FREQ%	ACT_P	NUM	FREQ%
DET	SORTS	FREQ%	(Bq)	(#)	(Bq/kg)		(kBq)	(#)	
1	1	8.3%	-14000	0	-250	0.0%	4	1	4.0%
2	0	0.0%	-12000	2	-215	0.2%	8	14	56.0%
3	2	16.7%	-10000	3	-179	0.3%	12	3	12.0%
4	2	16.7%	-8000	5	-143	0.5%	16	2	8.0%
5	2	16.7%	-6000	5	-107	0.5%	20	1	4.0%
6	4	33.3%	-4000	14	-72	1.3%	24	0	0.0%
7	1	8.3%	-2000	48	-36	4.4%	28	0	0.0%
8	0	0.0%	0	104	0	9.5%	32	0	0.0%
TOTAL	12		2000	236	36	21.6%	36	0	0.0%
2-GATE SORTS			4000	237	72	21.7%	40	0	0.0%
			6000	236	107	21.6%	44	0	0.0%
DET	SORTS	FREQ%	8000	133	143	12.2%	48	0	0.0%
9	1	7.7%	10000	53	179	4.8%	52	0	0.0%
10	1	7.7%	12000	14	215	1.3%	56	0	0.0%
11	3	23.1%	14000	4	250	0.4%	60	2	8.0%
12	2	15.4%	16000	0	286	0.0%	64	1	4.0%
13	5	38.5%	18000	0	322	0.0%	68	0	0.0%
14	1	7.7%	20000	0	358	0.0%	72	0	0.0%
15	0	0.0%	22000	0	394	0.0%	76	1	4.0%
TOTAL	13		24000	0	429	0.0%	80	0	0.0%
			26000	0	465	0.0%	84	0	0.0%
			>28000	0	0	0.0%	>84	0	0.0%
			TOTAL	1,094			TOTAL	25	
EVENT TYPES		HPE	25	MPE	65	DISE	0		



SORTER 2				19-Feb-94					
SORTER SOIL DENSITY			1.20 tons/m ³	BACKGROUND		0.76 ±	0.02 c/s		
SOIL		CONTAMINATED		CLEAN		TOTAL			
MASS TOTAL		0.2 tons		60.7 tons		60.9 tons			
MAXIMUM/SORT		2.8 kg		55.9 kg					
MINIMUM/SORT		0.7 kg		53.1 kg					
VOLUME IN-GROUND		0.1 yd ³		48.1 yd ³		48.3 yd ³			
WEIGHT RECOVERY (CLEAN/(HOT+CLEAN))		99.8%							
ACTIVITY				DISPERSED + PARTICLE					
				PARTICLE	HOT	CLEAN			
TOTAL				333 kBq	393 kBq	2,588 kBq			
MAXIMUM/SORT				68 kBq	42 kBq	16 kBq			
MINIMUM/SORT				2 kBq	0 Bq	-15 kBq			
SPECIFIC ACTIVITY					2,586 Bq/kg	43 Bq/kg			
SORTS									
20-SEC PROCESS PERIODS				1,089		UNEXP	PAUSE		
ALL 80 ELEMENTS SORT (MD>0&MND=0)				0		TIME	TIME		
NONE (AD=0 & MD=0 & MND>0)				901		None	None		
SOME (AD>0&0<MD<MNDmax&MND<MNDmax)				188					
UNEXPLAINED RECORDS				0					
0<AD<1kBq & MD>0				0					
AD=0 & MD>0				0					
AD<0 & MD >0				0					
2-SEC COUNT PERIODS				10,890					
2-SEC RECORDS WITH SORTS				22					
2-SEC RECORDS WITHOUT SORTS				10,868					
TOTAL PROCESS RECORDS (2-s SORTS and 20-s PERIODS)				1,111					
NONPROCESSING RECORDS (Test, calibration, etc)				3					
2-SEC SORT DETECTORS									
1 DET	16	72.7%	5 DET	0	0.0%				
2 DET	5	22.7%	6 DET	0	0.0%				
3 DET	1	4.5%	7 DET	0	0.0%				
4 DET	0	0.0%	8 DET	0	0.0%				
AVERAGE TIME BETWEEN 2-SEC SORTS				1361.3 sec					
FREQUENCY DISTRIBUTIONS									
1-GATE SORTS			ACT_ND	NUM	SPEC_A	FREQ%	ACT_P	NUM	FREQ%
DET	SORTS	FREQ%	(Bq)	(#)	(Bq/kg)		(kBq)	(#)	
1	0	0.0%	-14000	1	-250	0.1%	4	1	4.5%
2	3	27.3%	-12000	5	-215	0.5%	8	12	54.5%
3	1	9.1%	-10000	9	-179	0.8%	12	3	13.6%
4	1	9.1%	-8000	7	-143	0.6%	16	2	9.1%
5	2	18.2%	-6000	3	-107	0.3%	20	0	0.0%
6	2	18.2%	-4000	10	-72	0.9%	24	0	0.0%
7	1	9.1%	-2000	61	-36	5.6%	28	0	0.0%
8	1	9.1%	0	141	0	12.9%	32	0	0.0%
TOTAL	11		2000	225	36	20.6%	36	0	0.0%
			4000	297	72	27.2%	40	0	0.0%
			6000	185	107	16.9%	44	2	9.1%
2-GATE SORTS			8000	99	143	9.1%	48	0	0.0%
DET	SORTS	FREQ%							
9	1	9.1%	10000	35	179	3.2%	52	0	0.0%
10	1	9.1%	12000	8	215	0.7%	56	0	0.0%
11	4	36.4%	14000	5	250	0.5%	60	0	0.0%
12	1	9.1%	16000	1	286	0.1%	64	0	0.0%
13	1	9.1%	18000	0	322	0.0%	68	2	9.1%
14	2	18.2%	20000	0	358	0.0%	72	0	0.0%
15	1	9.1%	22000	0	394	0.0%	76	0	0.0%
TOTAL	11		24000	0	429	0.0%	80	0	0.0%
			26000	0	465	0.0%	84	0	0.0%
			>28000	0	0	0.0%	>84	0	0.0%
			TOTAL	1,092			TOTAL	22	
EVENT TYPES		HPE	24	MPE	193	DISE	0		



WORK HISTORY - JA SOIL CLEANUP PLANT

21-Feb-94

WORK DAY START	06:00 AM	WORK DAY END	16:30 PM
LUNCH START	11:00 AM	TIME LOST DURING LUNCH	0.5 HR

	SORTER 1	SORTER 2	SORTER 3	SORTER 4	TOTAL (sorter hours)
WORK HOURS	10.0 hr	10.0 hr	10.0 hr	10.0 hr	40.0 hr
SORTER AVAILABLE HOURS	0.0 hr	0.0 hr	0.0 hr	0.0 hr	0.0 hr
SORTER START-UP	NA	NA	NA	NA	
START SOIL PROCESSING	NA	NA	NA	NA	
TIME REQUIRED TO START-UP	0.0 hr	0.0 hr	0.0 hr	0.0 hr	0.0 hr
SORTER SHUT-DOWN	NA	NA	NA	NA	
END SOIL PROCESSING	NA	NA	NA	NA	
TIME REQUIRED TO SHUT DOWN	0.0 hr	0.0 hr	0.0 hr	0.0 hr	0.0 hr
ACTUAL PROCESS HOURS	0.0 hr	0.0 hr	0.0 hr	0.0 hr	0.0 hr
DOWN-TIME	0.0 hr	0.0 hr	0.0 hr	0.0 hr	0.0 hr
SYSTEM PAUSE	0.0 hr	0.0 hr	0.0 hr	0.0 hr	0.0 hr
SORTER NONAVAILABLE TIME	10.0 hr	10.0 hr	10.0 hr	10.0 hr	40.0 hr
AUTHORIZED DELAY TIME	0.0 hr	0.0 hr	10.0 hr	10.0 hr	20.0 hr
PLANT PERFORMANCE					NA
PRODUCTIVITY					0.0%

PRODUCTIVITY

Date	21-Feb-94	Excused Delays for day (sorter-hrs)	20 hr
Contract day (from 6 Sep)	133	Excused delays for contract (sorter-hrs)	1,826 hr
Current Contract week	23	Excused delay days (plant-days)	46 days
		Excused delay months (plant-month)	1.76 months
Soil production for Day	0 MT		
Cumulative Soil Production for Week	0 MT	Percent of contract completed	34.8%
Total Soil production for contract		Tons Ahead or Behind Schedule	1,708 MT
Since 6 Sep 93	33,168 MT	Days ahead or behind schedule	5 days
Since 6 Aug 93	34,759 MT		
Total Soil production for project	61,045 MT		

MT = metric tons

WORK HISTORY - JA SOIL CLEANUP PLANT

22-Feb-94

WORK DAY START	06:00	AM	WORK DAY END	16:30	PM
LUNCH START	11:00	AM	TIME LOST DURING LUNCH	0.5	HR

	SORTER 1	SORTER 2	SORTER 3	SORTER 4	TOTAL (sorter hours)
WORK HOURS	10.0 hr	10.0 hr	10.0 hr	10.0 hr	40.0 hr
SORTER AVAILABLE HOURS	0.0 hr	0.0 hr	0.0 hr	0.0 hr	0.0 hr
SORTER START-UP	NA	NA	NA	NA	
START SOIL PROCESSING	NA	NA	NA	NA	
TIME REQUIRED TO START-UP	0.0 hr	0.0 hr	0.0 hr	0.0 hr	0.0 hr
SORTER SHUT-DOWN	NA	NA	NA	NA	
END SOIL PROCESSING	NA	NA	NA	NA	
TIME REQUIRED TO SHUT DOWN	0.0 hr	0.0 hr	0.0 hr	0.0 hr	0.0 hr
ACTUAL PROCESS HOURS	0.0 hr	0.0 hr	0.0 hr	0.0 hr	0.0 hr
DOWN-TIME	0.0 hr	0.0 hr	0.0 hr	0.0 hr	0.0 hr
SYSTEM PAUSE	0.0 hr	0.0 hr	0.0 hr	0.0 hr	0.0 hr
SORTER NONAVAILABLE TIME	10.0 hr	10.0 hr	10.0 hr	10.0 hr	40.0 hr
AUTHORIZED DELAY TIME	10.0 hr	10.0 hr	10.0 hr	10.0 hr	40.0 hr
PLANT PERFORMANCE					NA
PRODUCTIVITY					0.0%

PRODUCTIVITY

Date	22-Feb-94	Excused Delays for day (sorter-hrs)	40 hr
Contract day (from 6 Sep)	134	Excused delays for contract (sorter-hrs)	1,866 hr
Current Contract week	23	Excused delay days (plant-days)	47 days
		Excused delay months (plant-month)	1.79 months
Soil production for Day	0 MT		
Cumulative Soil Production for Week	0 MT	Percent of contract completed	34.8%
Total Soil production for contract		Tons Ahead or Behind Schedule	1,708 MT
Since 6 Sep 93	33,168 MT	Days ahead or behind schedule	5 days
Since 6 Aug 93	34,759 MT		
Total Soil production for project	61,045 MT		

MT = metric tons

WORK HISTORY - JA SOIL CLEANUP PLANT

23-Feb-94

WORK DAY START	06:00	AM	WORK DAY END	16:30	PM
LUNCH START	11:00	AM	TIME LOST DURING LUNCH	0.5	HR

	SORTER 1	SORTER 2	SORTER 3	SORTER 4	TOTAL (sorter hours)
WORK HOURS	10.0 hr	10.0 hr	10.0 hr	10.0 hr	40.0 hr
SORTER AVAILABLE HOURS	0.0 hr	0.0 hr	0.0 hr	0.0 hr	0.0 hr
SORTER START-UP	NA	NA	NA	NA	
START SOIL PROCESSING	NA	NA	NA	NA	
TIME REQUIRED TO START-UP	0.0 hr	0.0 hr	0.0 hr	0.0 hr	0.0 hr
SORTER SHUT-DOWN	NA	NA	NA	NA	
END SOIL PROCESSING	NA	NA	NA	NA	
TIME REQUIRED TO SHUT DOWN	0.0 hr	0.0 hr	0.0 hr	0.0 hr	0.0 hr
ACTUAL PROCESS HOURS	0.0 hr	0.0 hr	0.0 hr	0.0 hr	0.0 hr
DOWN-TIME	0.0 hr	0.0 hr	0.0 hr	0.0 hr	0.0 hr
SYSTEM PAUSE	0.0 hr	0.0 hr	0.0 hr	0.0 hr	0.0 hr
SORTER NONAVAILABLE TIME	10.0 hr	10.0 hr	10.0 hr	10.0 hr	40.0 hr
AUTHORIZED DELAY TIME	10.0 hr	10.0 hr	10.0 hr	10.0 hr	40.0 hr
PLANT PERFORMANCE					NA
PRODUCTIVITY					0.0%

PRODUCTIVITY

Date	23-Feb-94	Excused Delays for day (sorter-hrs)	40 hr
Contract day (from 6 Sep)	135	Excused delays for contract (sorter-hrs)	1,906 hr
Current Contract week	23	Excused delay days (plant-days)	48 days
		Excused delay months (plant-month)	1.83 months
Soil production for Day	0 MT		
Cumulative Soil Production for Week	0 MT	Percent of contract completed	34.8%
Total Soil production for contract		Tons Ahead or Behind Schedule	1,708 MT
Since 6 Sep 93	33,168 MT	Days ahead or behind schedule	5 days
Since 6 Aug 93	34,759 MT		
Total Soil production for project	61,045 MT		

MT = metric tons

WORK HISTORY - JA SOIL CLEANUP PLANT

24-Feb-94

WORK DAY START	06:00	AM	WORK DAY END	16:30	PM
LUNCH START	11:00	AM	TIME LOST DURING LUNCH	0.5	HR

	SORTER 1	SORTER 2	SORTER 3	SORTER 4	TOTAL (sorter hours)
WORK HOURS	10.0 hr	10.0 hr	10.0 hr	10.0 hr	40.0 hr
SORTER AVAILABLE HOURS	0.0 hr	0.0 hr	0.0 hr	0.0 hr	0.0 hr
SORTER START-UP	NA	NA	NA	NA	
START SOIL PROCESSING	NA	NA	NA	NA	
TIME REQUIRED TO START-UP	0.0 hr	0.0 hr	0.0 hr	0.0 hr	0.0 hr
SORTER SHUT-DOWN	NA	NA	NA	NA	
END SOIL PROCESSING	NA	NA	NA	NA	
TIME REQUIRED TO SHUT DOWN	0.0 hr	0.0 hr	0.0 hr	0.0 hr	0.0 hr
ACTUAL PROCESS HOURS	0.0 hr	0.0 hr	0.0 hr	0.0 hr	0.0 hr
DOWN-TIME	0.0 hr	0.0 hr	0.0 hr	0.0 hr	0.0 hr
SYSTEM PAUSE	0.0 hr	0.0 hr	0.0 hr	0.0 hr	0.0 hr
SORTER NONAVAILABLE TIME	10.0 hr	10.0 hr	10.0 hr	10.0 hr	40.0 hr
AUTHORIZED DELAY TIME	10.0 hr	10.0 hr	10.0 hr	10.0 hr	40.0 hr
PLANT PERFORMANCE					NA
PRODUCTIVITY					0.0%

PRODUCTIVITY

Date	24-Feb-94	Excused Delays for day (sorter-hrs)	40 hr
Contract day (from 6 Sep)	136	Excused delays for contract (sorter-hrs)	1,946 hr
Current Contract week	23	Excused delay days (plant-days)	49 days
		Excused delay months (plant-month)	1.87 months
Soil production for Day	0 MT		
Cumulative Soil Production for Week	0 MT	Percent of contract completed	34.8%
Total Soil production for contract		Tons Ahead or Behind Schedule	1,708 MT
Since 6 Sep 93	33,168 MT	Days ahead or behind schedule	5 days
Since 6 Aug 93	34,759 MT		
Total Soil production for project	61,045 MT		

MT = metric tons

WORK HISTORY - JA SOIL CLEANUP PLANT

25-Feb-94

WORK DAY START	06:00	AM	WORK DAY END	16:30	PM
LUNCH START	11:00	AM	TIME LOST DURING LUNCH	0.5	HR

	SORTER 1	SORTER 2	SORTER 3	SORTER 4	TOTAL (sorter hours)
WORK HOURS	10.0 hr	10.0 hr	10.0 hr	10.0 hr	40.0 hr
SORTER AVAILABLE HOURS	0.0 hr	0.0 hr	0.0 hr	0.0 hr	0.0 hr
SORTER START-UP	NA	NA	NA	NA	
START SOIL PROCESSING	NA	NA	NA	NA	
TIME REQUIRED TO START-UP	0.0 hr	0.0 hr	0.0 hr	0.0 hr	0.0 hr
SORTER SHUT-DOWN	NA	NA	NA	NA	
END SOIL PROCESSING	NA	NA	NA	NA	
TIME REQUIRED TO SHUT DOWN	0.0 hr	0.0 hr	0.0 hr	0.0 hr	0.0 hr
ACTUAL PROCESS HOURS	0.0 hr	0.0 hr	0.0 hr	0.0 hr	0.0 hr
DOWN-TIME	0.0 hr	0.0 hr	0.0 hr	0.0 hr	0.0 hr
SYSTEM PAUSE	0.0 hr	0.0 hr	0.0 hr	0.0 hr	0.0 hr
SORTER NONAVAILABLE TIME	10.0 hr	10.0 hr	10.0 hr	10.0 hr	40.0 hr
AUTHORIZED DELAY TIME	10.0 hr	10.0 hr	10.0 hr	10.0 hr	40.0 hr
PLANT PERFORMANCE					NA
PRODUCTIVITY					0.0%

PRODUCTIVITY

Date	25-Feb-94	Excused Delays for day (sorter-hrs)	40 hr
Contract day (from 6 Sep)	137	Excused delays for contract (sorter-hrs)	1,986 hr
Current Contract week	23	Excused delay days (plant-days)	50 days
		Excused delay months (plant-month)	1.91 months
Soil production for Day	0 MT		
Cumulative Soil Production for Week	0 MT	Percent of contract completed	34.8%
Total Soil production for contract		Tons Ahead or Behind Schedule	1,708 MT
Since 6 Sep 93	33,168 MT	Days ahead or behind schedule	5 days
Since 6 Aug 93	34,759 MT		
Total Soil production for project	61,045 MT		

MT = metric tons

WORK HISTORY - JA SOIL CLEANUP PLANT

26-Feb-94

WORK DAY START	06:00 AM	WORK DAY END	16:30 PM
LUNCH START	11:00 AM	TIME LOST DURING LUNCH	0.0 HR

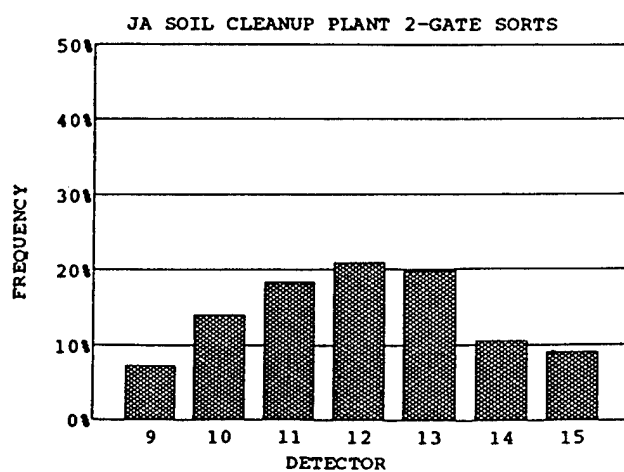
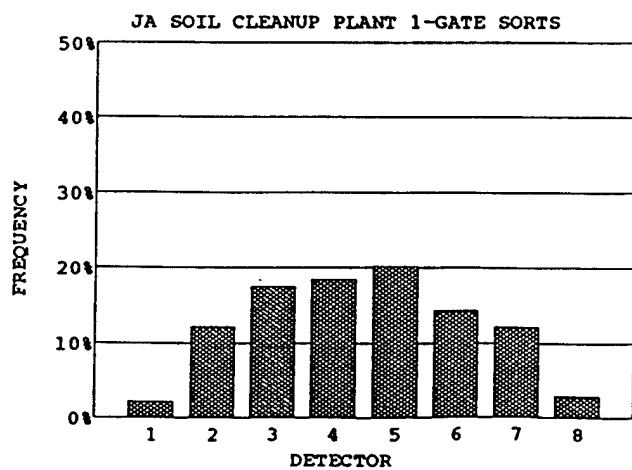
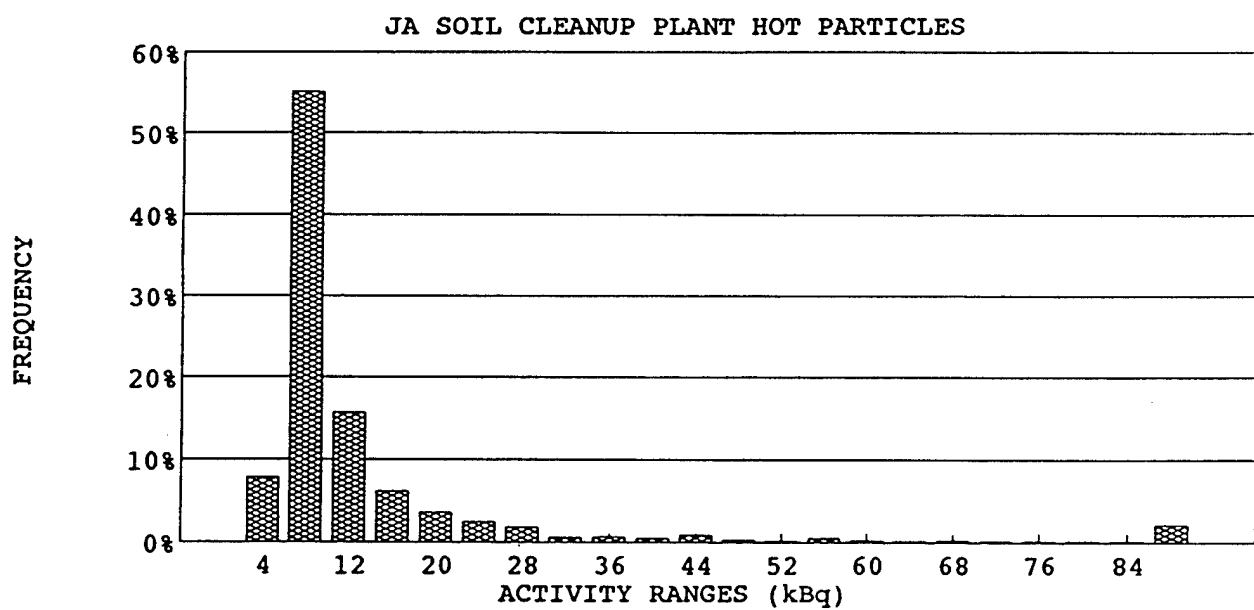
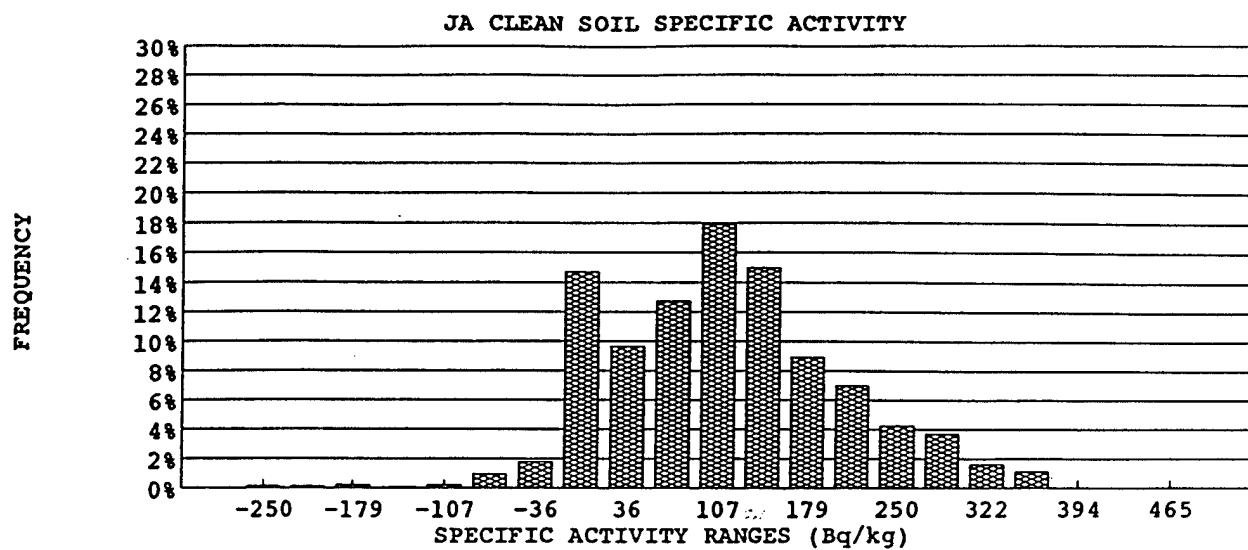
	SORTER 1	SORTER 2	SORTER 3	SORTER 4	TOTAL (sorter hours)
WORK HOURS	10.5 hr	10.5 hr	10.5 hr	10.5 hr	42.0 hr
SORTER AVAILABLE HOURS	10.0 hr	10.0 hr	0.0 hr	0.0 hr	20.0 hr
SORTER START-UP	06:00	06:00	NA	NA	
START SOIL PROCESSING	06:27	06:26	NA	NA	
TIME REQUIRED TO START-UP	0.5 hr	0.4 hr	0.0 hr	0.0 hr	0.9 hr
SORTER SHUT-DOWN	16:00	16:00	NA	NA	
END SOIL PROCESSING	15:25	15:27	NA	NA	
TIME REQUIRED TO SHUT DOWN	0.6 hr	0.5 hr	0.0 hr	0.0 hr	1.1 hr
ACTUAL PROCESS HOURS	8.3 hr	8.4 hr	0.0 hr	0.0 hr	16.6 hr
DOWN-TIME	1.8 hr	1.6 hr	0.0 hr	0.0 hr	3.4 hr
SYSTEM PAUSE	0.8 hr	0.7 hr	0.0 hr	0.0 hr	1.4 hr
SORTER NONAVAILABLE TIME	0.5 hr	0.5 hr	10.0 hr	10.0 hr	21.0 hr
AUTHORIZED DELAY TIME	0.0 hr	0.0 hr	10.0 hr	10.0 hr	20.0 hr
PLANT PERFORMANCE					83.2%
PRODUCTIVITY					39.6%

PRODUCTIVITY

Date	26-Feb-94	Excused Delays for day (sorter-hrs)	20 hr
Contract day (from 6 Sep)	138	Excused delays for contract (sorter-hrs)	2,006 hr
Current Contract week	23	Excused delay days (plant-days)	50 days
		Excused delay months (plant-month)	1.93 months
Soil production for Day	166 MT		
Cumulative Soil Production for Week	166 MT	Percent of contract completed	34.9%
Total Soil production for contract		Tons Ahead or Behind Schedule	1,716 MT
Since 6 Sep 93	33,334 MT	Days ahead or behind schedule	5 days
Since 6 Aug 93	34,925 MT		
Total Soil production for project	61,211 MT		

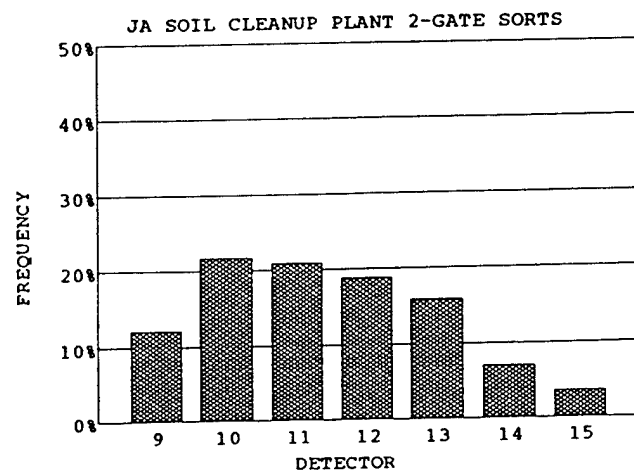
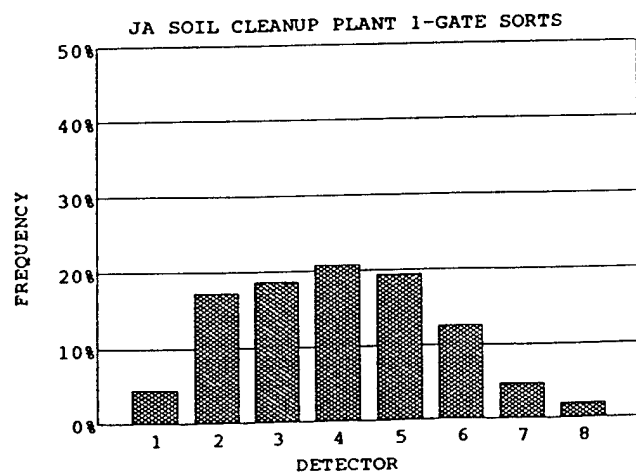
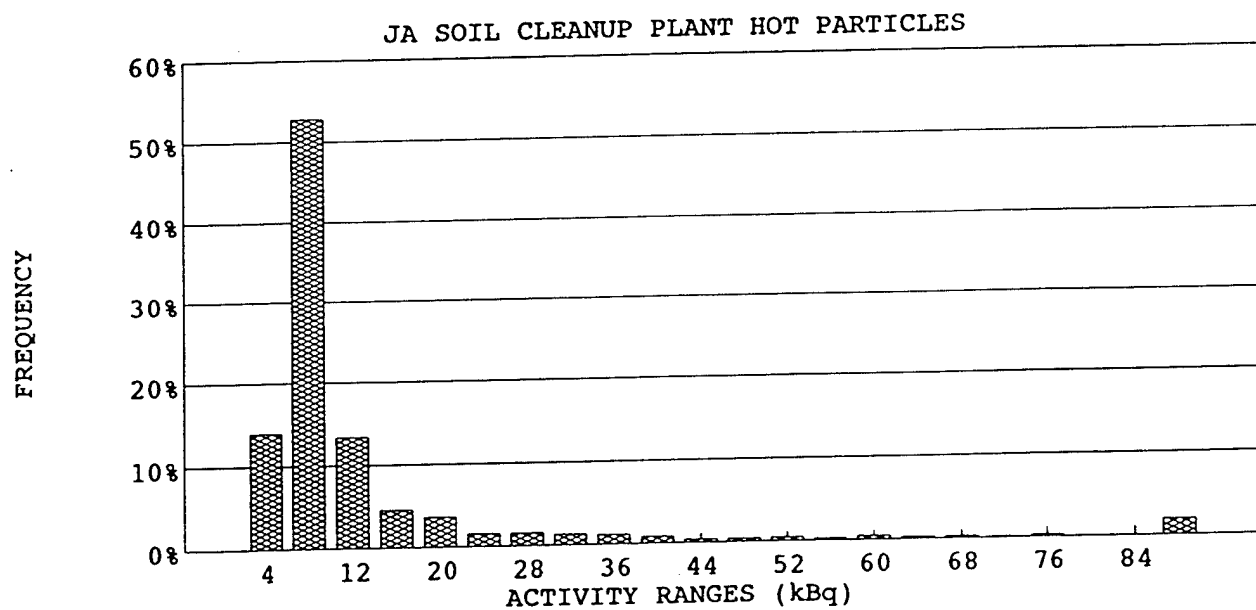
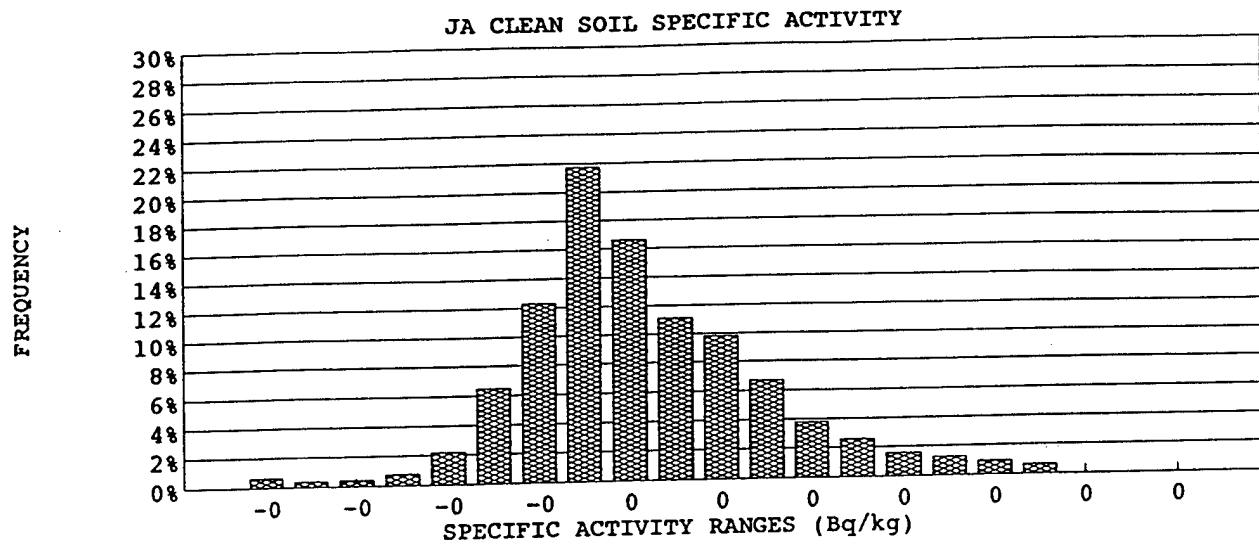
MT = metric tons

SORTER 1				26-Feb-94					
SORTER SOIL DENSITY		1.20 tons/m ³		BACKGROUND		0.66 ± 0.03 c/s			
SOIL		CONTAMINATED		CLEAN		TOTAL			
MASS TOTAL		9.4 tons		73.6 tons		83.0 tons			
MAXIMUM/SORT		58.1 kg		55.9 kg					
MINIMUM/SORT		0.7 kg		43.3 kg					
VOLUME IN-GROUND		7.5 yd ³		58.3 yd ³		65.8 yd ³			
WEIGHT RECOVERY (CLEAN/(HOT+CLEAN))		88.7%							
ACTIVITY		PARTICLE		HOT		DISPERSED + PARTICLE CLEAN			
TOTAL		28,916 kBq		15,502 kBq		8,010 kBq			
MAXIMUM/SORT		3,730 kBq		2,094 kBq		20 kBq			
MINIMUM/SORT		3 kBq		(1,605)Bq		-17 kBq			
SPECIFIC ACTIVITY				1,646 Bq/kg		109 Bq/kg			
SORTS									
20-SEC PROCESS PERIODS				1,485					
ALL 80 ELEMENTS SORT (MD>0&MND=0)				154					
NONE (AD=0 & MD=0 & MND>0)				917					
SOME (AD>0&0<MD<MNDmax&MND<MNDmax)				414					
UNEXPLAINED RECORDS				0					
0<AD<1kBq & MD>0				1					
AD=0 & MD>0				0					
AD<0 & MD >0				1					
2-SEC COUNT PERIODS				14,850					
2-SEC RECORDS WITH SORTS				1,603					
2-SEC RECORDS WITHOUT SORTS				13,247					
TOTAL PROCESS RECORDS (2-s SORTS and 20-s PERIODS)				3,088					
NONPROCESSING RECORDS (Test, calibration, etc)				4					
2-SEC SORT DETECTORS									
1 DET		1,218	76.0%	5 DET		6	0.4%		
2 DET		310	19.3%	6 DET		0	0.0%		
3 DET		60	3.7%	7 DET		1	0.1%		
4 DET		9	0.6%	8 DET		0	0.0%		
AVERAGE TIME BETWEEN 2-SEC SORTS				24.4 sec					
FREQUENCY DISTRIBUTIONS									
1-GATE SORTS			ACT_ND	NUM	SPEC_A	FREQ%	ACT_P	NUM	FREQ%
DET	SORTS	FREQ%	(Bq)	(#)	(Bq/kg)		(kBq)	(#)	
1	18	2.2%	-14000	2	-250	0.1%	4	126	7.9%
2	100	12.2%	-12000	2	-215	0.1%	8	883	55.1%
3	143	17.5%	-10000	3	-179	0.2%	12	252	15.7%
4	151	18.4%	-8000	1	-143	0.1%	16	99	6.2%
5	165	20.1%	-6000	3	-107	0.2%	20	58	3.6%
6	118	14.4%	-4000	14	-72	0.9%	24	39	2.4%
7	100	12.2%	-2000	26	-36	1.7%	28	30	1.9%
8	24	2.9%	0	219	0	14.7%	32	10	0.6%
TOTAL	819		2000	144	36	9.7%	36	11	0.7%
			4000	190	72	12.8%	40	9	0.6%
			6000	266	107	17.9%	44	15	0.9%
2-GATE SORTS			8000	223	143	15.0%	48	5	0.3%
DET	SORTS	FREQ%	10000	133	179	8.9%	52	2	0.1%
9	57	7.3%	12000	104	215	7.0%	56	9	0.6%
10	110	14.0%	14000	63	250	4.2%	60	4	0.2%
11	144	18.4%	16000	55	286	3.7%	64	3	0.2%
12	164	20.9%	18000	24	322	1.6%	68	4	0.2%
13	155	19.8%	20000	17	358	1.1%	72	3	0.2%
14	83	10.6%	22000	0	394	0.0%	76	2	0.1%
15	71	9.1%	24000	0	429	0.0%	80	2	0.1%
TOTAL	784		26000	0	465	0.0%	84	2	0.1%
			>28000	0	0	0.0%	>84	35	2.2%
			TOTAL	1,489			TOTAL	1,603	
EVENT TYPES		HPE	1,637	MPE	29	DISE	11812		



SORTER 2				26-Feb-94						
SORTER SOIL DENSITY			1.20 tons/m ³	BACKGROUND		0.76 ±	0.04 c/s			
SOIL		CONTAMINATED		CLEAN		TOTAL				
MASS TOTAL		8.0 tons		9.3E+09 tons		9E+09 tons				
MAXIMUM/SORT		58.1 kg		9.3E+12 kg						
MINIMUM/SORT		0.7 kg		4.1E+01 kg						
VOLUME IN-GROUND		6.4 yd ³		7.3E+09 yd ³		7E+09 yd ³				
WEIGHT RECOVERY (CLEAN/(HOT+CLEAN))		100.0%								
ACTIVITY				DISPERSED + PARTICLE						
		PARTICLE		HOT		CLEAN				
TOTAL		25,934 kBq		13,532 kBq		2,331 kBq				
MAXIMUM/SORT		1,434 kBq		851 kBq		20 kBq				
MINIMUM/SORT		2 kBq		(4,983)Bq		-23 kBq				
SPECIFIC ACTIVITY				1,684 Bq/kg		0 Bq/kg				
SORTS										
20-SEC PROCESS PERIODS				1,509		UNEXP PAUSE				
ALL 80 ELEMENTS SORT (MD>0&MND=0)				128		TIME TIME				
NONE (AD=0 & MD=0 & MND>0)				937		06:59 08:17				
SOME (AD>0&0<MD<MNDmax&MND<MNDmax)				563		08:38 14:58				
UNEXPLAINED RECORDS (119)						08:39 15:02				
0<AD<1kBq & MD>0				5		09:52 15:04				
AD=0 & MD>0				1		10:44 15:14				
AD<0 & MD >0				4		11:57				
2-SEC COUNT PERIODS				15,090		12:56				
2-SEC RECORDS WITH SORTS				1,634		13:22				
2-SEC RECORDS WITHOUT SORTS				13,456		15:14				
TOTAL PROCESS RECORDS (2-s SORTS and 20-s PERIODS)				3,143		15:27				
NONPROCESSING RECORDS (Test, calibration, etc)				4						
2-SEC SORT DETECTORS										
1 DET		1,216	74.4%	5 DET	3	0.2%				
2 DET		334	20.4%	6 DET	0	0.0%				
3 DET		70	4.3%	7 DET	0	0.0%				
4 DET		11	0.7%	8 DET	0	0.0%				
AVERAGE TIME BETWEEN 2-SEC SORTS				24.8 sec						
FREQUENCY DISTRIBUTIONS										
1-GATESORTS			ACT_ND	NUM	SPEC_A	FREQ%	ACT_P	NUM	FREQ%	
DET	SORTS	FREQ%	(Bq)	(#)	(Bq/kg)		(kBq)	(#)		
1	36	4.5%	-14000	10	-0	0.7%	4	228	14.0%	
2	137	17.3%	-12000	6	-0	0.4%	8	863	52.8%	
3	148	18.6%	-10000	7	-0	0.5%	12	219	13.4%	
4	165	20.8%	-8000	12	-0	0.8%	16	75	4.6%	
5	154	19.4%	-6000	33	-0	2.2%	20	60	3.7%	
6	100	12.6%	-4000	98	-0	6.5%	24	26	1.6%	
7	38	4.8%	-2000	186	-0	12.3%	28	26	1.6%	
8	16	2.0%	0	329	0	21.7%	32	22	1.3%	
TOTAL	794		2000	251	0	16.6%	36	19	1.2%	
2-GATESORTS			4000	168	0	11.1%	40	14	0.9%	
			6000	148	0	9.8%	44	7	0.4%	
DET	SORTS	FREQ%	8000	101	0	6.7%	48	7	0.4%	
9	102	12.1%	10000	57	0	3.8%	52	8	0.5%	
10	182	21.7%	12000	39	0	2.6%	56	4	0.2%	
11	176	21.0%	14000	24	0	1.6%	60	8	0.5%	
12	158	18.8%	16000	19	0	1.3%	64	4	0.2%	
13	133	15.8%	18000	15	0	1.0%	68	4	0.2%	
14	59	7.0%	20000	10	0	0.7%	72	2	0.1%	
15	30	3.6%	22000	0	0	0.0%	76	4	0.2%	
TOTAL	840		24000	0	0	0.0%	80	1	0.1%	
			26000	0	0	0.0%	84	1	0.1%	
			>28000	0	0	0.0%	>84	32	2.0%	
TOTAL				1,513			TOTAL	1,634		
EVENT TYPES		HPE	1,733	MPE	29	DISE	10063			

SORTER 2				26-Feb-94					
SORTER SOIL DENSITY			1.20 tons/m ³	BACKGROUND		0.76 ±	0.04 c/s		
SOIL		CONTAMINATED		CLEAN		TOTAL			
MASS TOTAL		8.0 tons		75.0 tons		83.0 tons			
MAXIMUM/SORT		58.1 kg		55.9 kg					
MINIMUM/SORT		0.7 kg		40.5 kg					
VOLUME IN-GROUND		6.4 yd ³		59.5 yd ³		65.8 yd ³			
WEIGHT RECOVERY (CLEAN/(HOT+CLEAN))		90.3%							
ACTIVITY		PARTICLE		DISPERSED + PARTICLE					
				HOT	CLEAN				
TOTAL		25,934 kBq		13,532 kBq	2,331 kBq				
MAXIMUM/SORT		1,434 kBq		851 kBq	20 kBq				
MINIMUM/SORT		2 kBq		(4,983)Bq	-23 kBq				
SPECIFIC ACTIVITY				1,684 Bq/kg	31 Bq/kg				
SORTS									
20-SEC PROCESS PERIODS				1,509		UNEXP	PAUSE		
ALL 80 ELEMENTS SORT (MD>0&MND=0)				128		TIME	TIME		
NONE (AD=0 & MD=0 & MND>0)				937		06:59	08:17		
SOME (AD>0&0<MD<MNDmax&MND<MNDmax)				563		08:38	14:58		
UNEXPLAINED RECORDS (119)						08:39	15:02		
0<AD<1kBq & MD>0				5		09:52	15:04		
AD=0 & MD>0				1		10:44	15:14		
AD<0 & MD >0				4		11:57			
2-SEC COUNT PERIODS				15,090		12:56			
2-SEC RECORDS WITH SORTS				1,634		13:22			
2-SEC RECORDS WITHOUT SORTS				13,456		15:14			
TOTAL PROCESS RECORDS (2-s SORTS and 20-s PERIODS)				3,143		15:27			
NONPROCESSING RECORDS (Test, calibration, etc)				4					
2-SEC SORT DETECTORS									
1 DET		1,216	74.4%	5 DET	3	0.2%			
2 DET		334	20.4%	6 DET	0	0.0%			
3 DET		70	4.3%	7 DET	0	0.0%			
4 DET		11	0.7%	8 DET	0	0.0%			
AVERAGE TIME BETWEEN 2-SEC SORTS				24.8 sec					
FREQUENCY DISTRIBUTIONS									
1-GATE SORTS			ACT_ND	NUM	SPEC_A	FREQ%	ACT_P	NUM	FREQ%
DET	SORTS	FREQ%	(Bq)	(#)	(Bq/kg)		(kBq)	(#)	
1	36	4.5%	-14000	10	-250	0.7%	4	228	14.0%
2	137	17.3%	-12000	6	-215	0.4%	8	863	52.8%
3	148	18.6%	-10000	7	-179	0.5%	12	219	13.4%
4	165	20.8%	-8000	12	-143	0.8%	16	75	4.6%
5	154	19.4%	-6000	33	-107	2.2%	20	60	3.7%
6	100	12.6%	-4000	98	-72	6.5%	24	26	1.6%
7	38	4.8%	-2000	186	-36	12.3%	28	26	1.6%
8	16	2.0%	0	329	0	21.7%	32	22	1.3%
TOTAL	794		2000	251	36	16.6%	36	19	1.2%
			4000	168	72	11.1%	40	14	0.9%
2-GATE SORTS			6000	148	107	9.8%	44	7	0.4%
DET	SORTS	FREQ%	8000	101	143	6.7%	48	7	0.4%
9	102	12.1%	10000	57	179	3.8%	52	8	0.5%
10	182	21.7%	12000	39	215	2.6%	56	4	0.2%
11	176	21.0%	14000	24	250	1.6%	60	8	0.5%
12	158	18.8%	16000	19	286	1.3%	64	4	0.2%
13	133	15.8%	18000	15	322	1.0%	68	4	0.2%
14	59	7.0%	20000	10	358	0.7%	72	2	0.1%
15	30	3.6%	22000	0	394	0.0%	76	4	0.2%
TOTAL	840		24000	0	429	0.0%	80	1	0.1%
			26000	0	465	0.0%	84	1	0.1%
			>28000	0	0	0.0%	>84	32	2.0%
			TOTAL	1,513			TOTAL	1,634	
EVENT TYPES		HPE	1,733	MPE	29	DISE	10063		



WORK HISTORY - JA SOIL CLEANUP PLANT

28-Feb-94

WORK DAY START	05:50 AM	WORK DAY END	16:30 PM
LUNCH START	11:00 AM	TIME LOST DURING LUNCH	0.0 HR

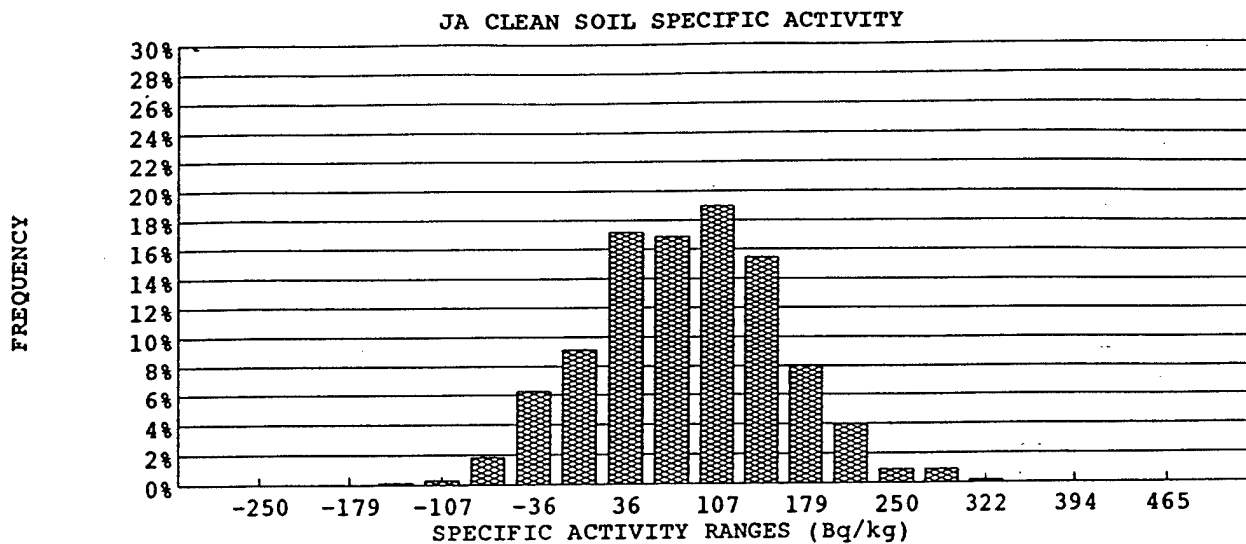
	SORTER 1	SORTER 2	SORTER 3	SORTER 4	TOTAL (sorter hours)
WORK HOURS	10.7 hr	10.7 hr	10.7 hr	10.7 hr	42.7 hr
SORTER AVAILABLE HOURS	10.5 hr	10.5 hr	0.0 hr	0.0 hr	21.0 hr
SORTER START-UP	05:50	05:50	NA	NA	
START SOIL PROCESSING	06:24	06:25	NA	NA	
TIME REQUIRED TO START-UP	0.6 hr	0.6 hr	0.0 hr	0.0 hr	1.2 hr
SORTER SHUT-DOWN	16:20	16:20	NA	NA	
END SOIL PROCESSING	16:00	16:00	NA	NA	
TIME REQUIRED TO SHUT DOWN	0.3 hr	0.3 hr	0.0 hr	0.0 hr	0.7 hr
ACTUAL PROCESS HOURS	9.6 hr	9.6 hr	0.0 hr	0.0 hr	19.1 hr
DOWN-TIME	0.9 hr	0.9 hr	0.0 hr	0.0 hr	1.9 hr
SYSTEM PAUSE	0.0 hr	0.0 hr	0.0 hr	0.0 hr	0.0 hr
SORTER NONAVAILABLE TIME	0.2 hr	0.2 hr	10.0 hr	10.0 hr	20.3 hr
AUTHORIZED DELAY TIME	0.0 hr	0.0 hr	10.0 hr	10.0 hr	20.0 hr
PLANT PERFORMANCE					91.1%
PRODUCTIVITY					44.9%

PRODUCTIVITY

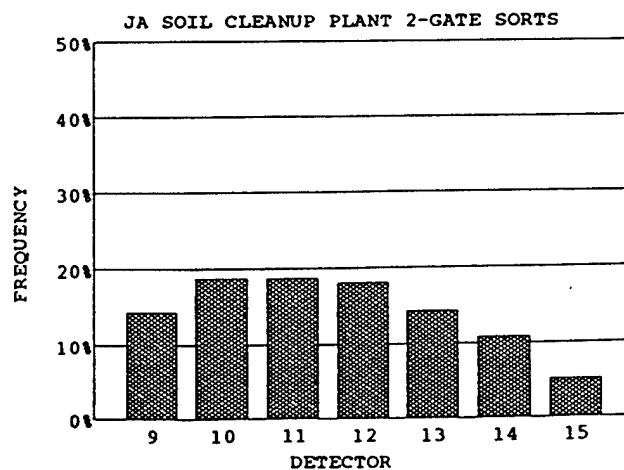
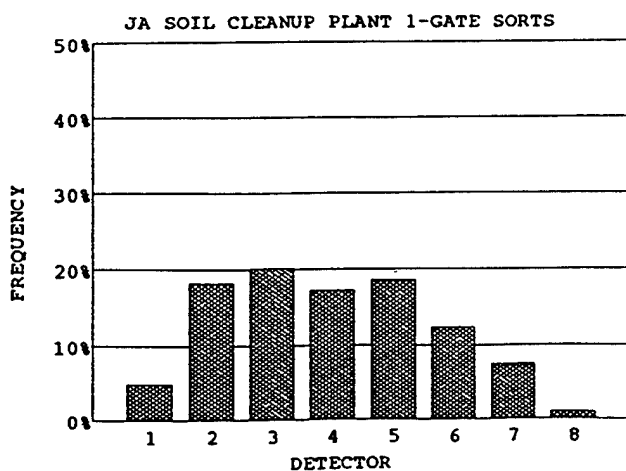
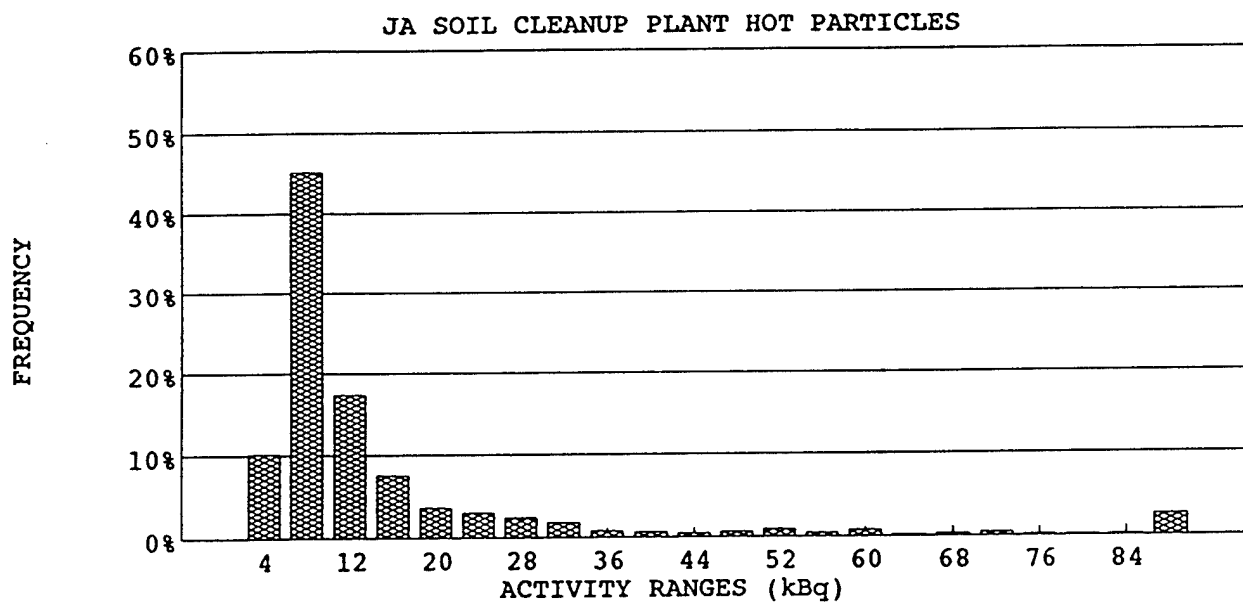
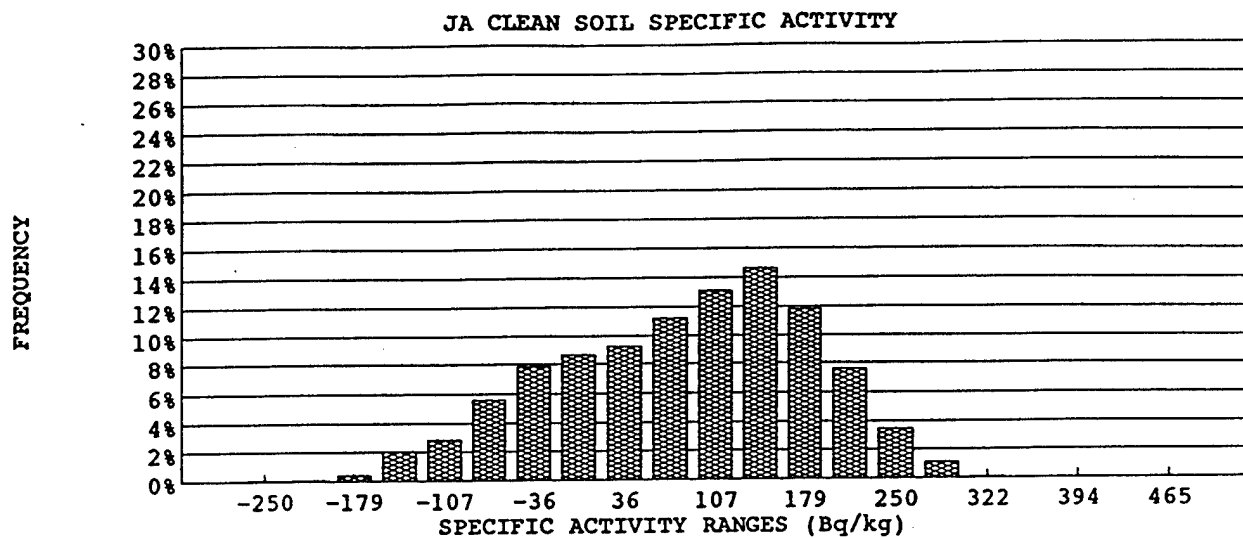
Date	28-Feb-94	Excused Delays for day (sorter-hrs)	20 hr
Contract day (from 6 Sep)	139	Excused delays for contract (sorter-hrs)	2,026 hr
Current Contract week	24	Excused delay days (plant-days)	51 days
		Excused delay months (plant-month)	1.95 months
Soil production for Day	193 MT		
Cumulative Soil Production for Week	193 MT	Percent of contract completed	35.1%
Total Soil production for contract		Tons Ahead or Behind Schedule	1,750 MT
Since 6 Sep 93	33,526 MT	Days ahead or behind schedule	6 days
Since 6 Aug 93	35,117 MT		
Total Soil production for project	61,404 MT		

MT = metric tons

SORTER 1				28-Feb-94					
SORTER SOIL DENSITY		1.20 tons/m ³		BACKGROUND		0.68 ± 0.02 c/s			
SOIL		CONTAMINATED		CLEAN		TOTAL			
MASS TOTAL		0.5 tons		95.7 tons		96.2 tons			
MAXIMUM/SORT		4.2 kg		55.9 kg					
MINIMUM/SORT		0.7 kg		51.7 kg					
VOLUME IN-GROUND		0.4 yd ³		75.9 yd ³		76.3 yd ³			
WEIGHT RECOVERY (CLEAN/(HOT+CLEAN))		99.5%							
ACTIVITY				DISPERSED + PARTICLE					
		PARTICLE		HOT		CLEAN			
TOTAL		10,511 kBq		3,425 kBq		6,551 kBq			
MAXIMUM/SORT		335 kBq		181 kBq		17 kBq			
MINIMUM/SORT		3 kBq		0 Bq		-7 kBq			
SPECIFIC ACTIVITY				7,090 Bq/kg		68 Bq/kg			
SORTS									
20-SEC PROCESS PERIODS				1,721		UNEXP PAUSE			
ALL 80 ELEMENTS SORT (MD>0&MND=0)				0		TIME TIME			
NONE (AD=0 & MD=0 & MND>0)				1,408		12:40 12:53			
SOME (AD>0&0<MD<MNDmax&MND<MNDmax)				313		13:33			
UNEXPLAINED RECORDS				0					
0<AD<1kBq & MD>0				2					
AD=0 & MD>0				0					
AD<0 & MD>0				0					
2-SEC COUNT PERIODS				17,210					
2-SEC RECORDS WITH SORTS				669					
2-SEC RECORDS WITHOUT SORTS				16,541					
TOTAL PROCESS RECORDS (2-s SORTS and 20-s PERIODS)				2,390					
NONPROCESSING RECORDS (Test, calibration, etc)				8					
2-SEC SORT DETECTORS									
1 DET		488	72.9%	5 DET	1	0.1%			
2 DET		145	21.7%	6 DET	0	0.0%			
3 DET		29	4.3%	7 DET	0	0.0%			
4 DET		6	0.9%	8 DET	0	0.0%			
AVERAGE TIME BETWEEN 2-SEC SORTS				70.5 sec					
FREQUENCY DISTRIBUTIONS									
1-GATE SORTS			ACT_ND	NUM	SPEC_A	FREQ%	ACT_P	NUM	FREQ%
DET	SORTS	FREQ%	(Bq)	(#)	(Bq/kg)		(kBq)	(#)	
1	9	2.7%	-14000	0	-250	0.0%	4	37	5.5%
2	35	10.3%	-12000	0	-215	0.0%	8	314	46.9%
3	52	15.3%	-10000	0	-179	0.0%	12	119	17.8%
4	72	21.2%	-8000	2	-143	0.1%	16	44	6.6%
5	65	19.2%	-6000	5	-107	0.3%	20	41	6.1%
6	44	13.0%	-4000	31	-72	1.8%	24	17	2.5%
7	48	14.2%	-2000	108	-36	6.2%	28	14	2.1%
8	14	4.1%	0	157	0	9.1%	32	16	2.4%
TOTAL	339		2000	297	36	17.2%	36	9	1.3%
			4000	292	72	16.9%	40	9	1.3%
2-GATE SORTS			6000	328	107	19.0%	44	6	0.9%
DET	SORTS	FREQ%	8000	267	143	15.4%	48	2	0.3%
9	25	7.6%	10000	139	179	8.0%	52	4	0.6%
10	44	13.3%	12000	68	215	3.9%	56	6	0.9%
11	48	14.5%	14000	16	250	0.9%	60	2	0.3%
12	67	20.3%	16000	16	286	0.9%	64	2	0.3%
13	69	20.9%	18000	3	322	0.2%	68	1	0.1%
14	49	14.8%	20000	0	358	0.0%	72	3	0.4%
15	28	8.5%	22000	0	394	0.0%	76	2	0.3%
TOTAL	330		24000	0	429	0.0%	80	4	0.6%
			26000	0	465	0.0%	84	1	0.1%
			>28000	0	0	0.0%	>84	16	2.4%
			TOTAL	1,729			TOTAL	669	
EVENT TYPES		HPE	678	MPE	12	DISE	0		



SORTER 2				28-Feb-94					
SORTER SOIL DENSITY			1.20 tons/m ³	BACKGROUND		0.78 ±	0.03 c/s		
SOIL		CONTAMINATED		CLEAN		TOTAL			
MASS TOTAL		0.5 tons		95.9 tons		96.4 tons			
MAXIMUM/SORT		55.9 kg		55.9 kg					
MINIMUM/SORT		0.7 kg		50.3 kg					
VOLUME IN-GROUND		0.4 yd ³		76.0 yd ³		76.4 yd ³			
WEIGHT RECOVERY (CLEAN/(HOT+CLEAN))		99.5%							
ACTIVITY				DISPERSED + PARTICLE					
				PARTICLE	HOT	CLEAN			
TOTAL				13,534 kBq	4,109 kBq	6,246 kBq			
MAXIMUM/SORT				2,452 kBq	1,271 kBq	17 kBq			
MINIMUM/SORT				3 kBq	0 Bq	-15 kBq			
SPECIFIC ACTIVITY					8,131 Bq/kg	65 Bq/kg			
SORTS									
20-SEC PROCESS PERIODS				1,724		UNEXP	PAUSE		
ALL 80 ELEMENTS SORT (MD>0&MND=0)				1		TIME	TIME		
NONE (AD=0 & MD=0 & MND>0)				1,438		None	None		
SOME (AD>0&0<MD<MNDmax&MND<MNDmax)				285					
UNEXPLAINED RECORDS				0					
0<AD<1kBq & MD>0				0					
AD=0 & MD>0				0					
AD<0 & MD >0				0					
2-SEC COUNT PERIODS				17,240					
2-SEC RECORDS WITH SORTS				622					
2-SEC RECORDS WITHOUT SORTS				16,618					
TOTAL PROCESS RECORDS (2-s SORTS and 20-s PERIODS)				2,346					
NONPROCESSING RECORDS (Test, calibration, etc)				6					
2-SEC SORT DETECTORS									
1 DET		461	74.1%	5 DET	1	0.2%			
2 DET		132	21.2%	6 DET	0	0.0%			
3 DET		25	4.0%	7 DET	0	0.0%			
4 DET		3	0.5%	8 DET	0	0.0%			
AVERAGE TIME BETWEEN 2-SEC SORTS				74.8 sec					
FREQUENCY DISTRIBUTIONS									
1-GATE SORTS			ACT_ND	NUM	SPEC_A	FREQ%	ACT_P	NUM	FREQ%
DET	SORTS	FREQ%	(Bq)	(#)	(Bq/kg)		(kBq)	(#)	
1	15	4.9%	-14000	1	-250	0.1%	4	63	10.1%
2	56	18.2%	-12000	2	-215	0.1%	8	281	45.2%
3	62	20.2%	-10000	8	-179	0.5%	12	108	17.4%
4	53	17.3%	-8000	36	-143	2.1%	16	47	7.6%
5	57	18.6%	-6000	49	-107	2.8%	20	23	3.7%
6	38	12.4%	-4000	97	-72	5.6%	24	19	3.1%
7	23	7.5%	-2000	136	-36	7.9%	28	15	2.4%
8	3	1.0%	0	150	0	8.7%	32	11	1.8%
TOTAL	307		2000	160	36	9.2%	36	5	0.8%
			4000	194	72	11.2%	40	4	0.6%
2-GATE SORTS			6000	227	107	13.1%	44	3	0.5%
DET	SORTS	FREQ%	8000	253	143	14.6%	48	4	0.6%
9	45	14.3%	10000	204	179	11.8%	52	6	1.0%
10	59	18.7%	12000	131	215	7.6%	56	3	0.5%
11	59	18.7%	14000	60	250	3.5%	60	5	0.8%
12	57	18.1%	16000	20	286	1.2%	64	1	0.2%
13	45	14.3%	18000	2	322	0.1%	68	2	0.3%
14	34	10.8%	20000	0	358	0.0%	72	3	0.5%
15	16	5.1%	22000	0	394	0.0%	76	1	0.2%
TOTAL	315		24000	0	429	0.0%	80	1	0.2%
			26000	0	465	0.0%	84	1	0.2%
			>28000	0	0	0.0%	>84	16	2.6%
			TOTAL	1,730			TOTAL	622	
EVENT TYPES		HPE	632	MPE	11	DISE	79		



WORK HISTORY - JA SOIL CLEANUP PLANT

01-Mar-94

WORK DAY START	06:00 AM	WORK DAY END	16:30 PM
LUNCH START	11:00 AM	TIME LOST DURING LUNCH	0.0 HR

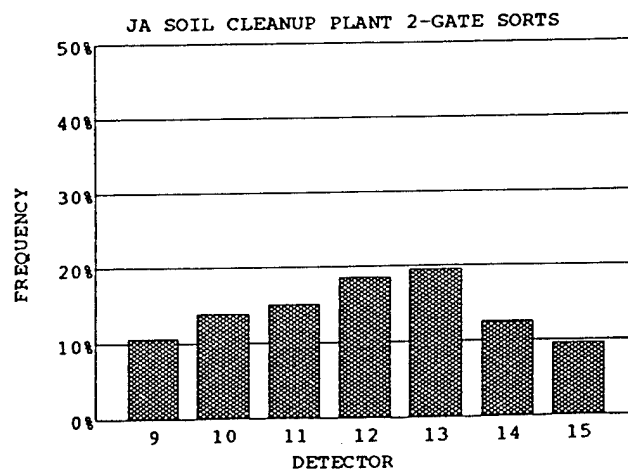
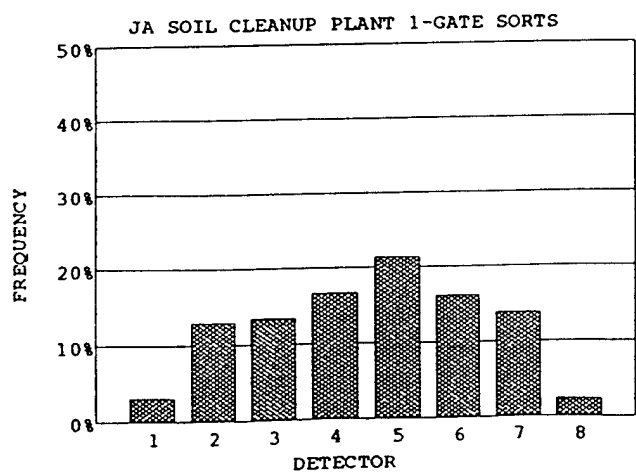
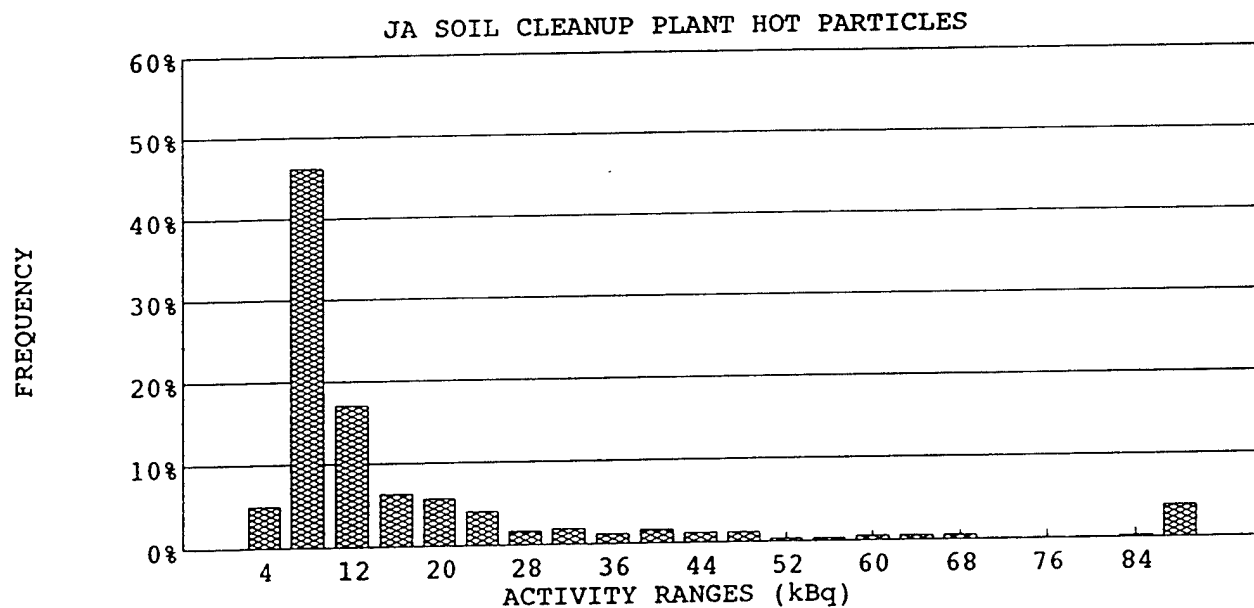
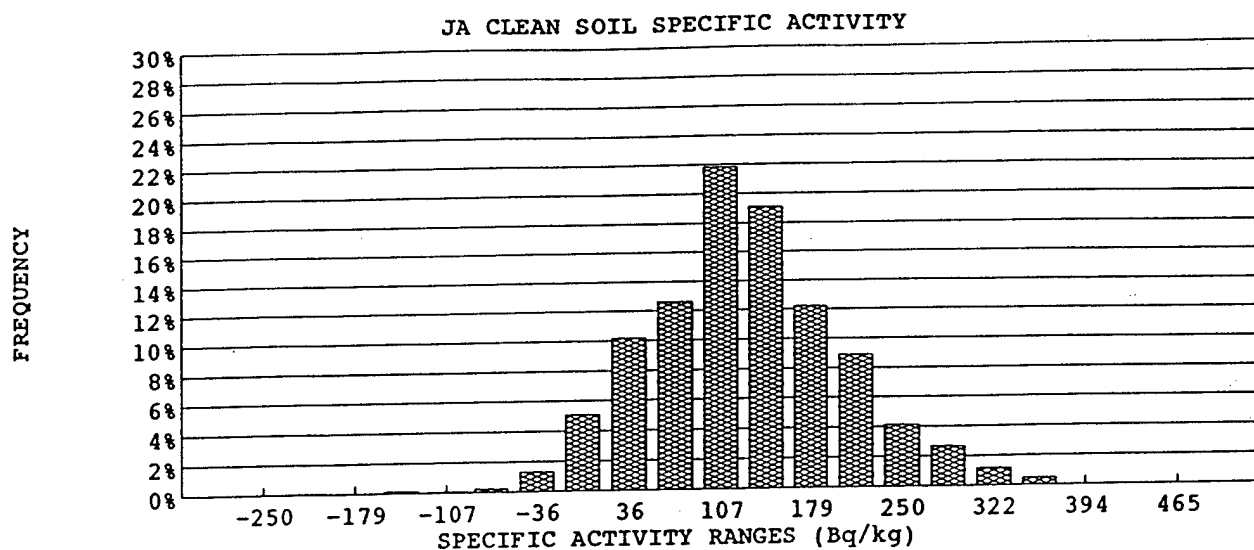
	SORTER 1	SORTER 2	SORTER 3	SORTER 4	TOTAL (sorter hours)
WORK HOURS	10.5 hr	10.5 hr	10.5 hr	10.5 hr	42.0 hr
SORTER AVAILABLE HOURS	10.3 hr	10.3 hr	0.0 hr	0.0 hr	20.5 hr
SORTER START-UP	06:00	06:00	NA	NA	
START SOIL PROCESSING	06:17	06:17	NA	NA	
TIME REQUIRED TO START-UP	0.3 hr	0.3 hr	0.0 hr	0.0 hr	0.6 hr
SORTER SHUT-DOWN	16:15	16:15	NA	NA	
END SOIL PROCESSING	15:53	15:52	NA	NA	
TIME REQUIRED TO SHUT DOWN	0.4 hr	0.4 hr	0.0 hr	0.0 hr	0.7 hr
ACTUAL PROCESS HOURS	9.5 hr	9.6 hr	0.0 hr	0.0 hr	19.1 hr
DOWN-TIME	0.7 hr	0.7 hr	0.0 hr	0.0 hr	1.4 hr
SYSTEM PAUSE	0.1 hr	0.0 hr	0.0 hr	0.0 hr	0.1 hr
SORTER NONAVAILABLE TIME	0.2 hr	0.2 hr	10.0 hr	10.0 hr	20.5 hr
AUTHORIZED DELAY TIME	0.0 hr	0.0 hr	10.0 hr	10.0 hr	20.0 hr
PLANT PERFORMANCE					93.3%
PRODUCTIVITY					45.5%

PRODUCTIVITY

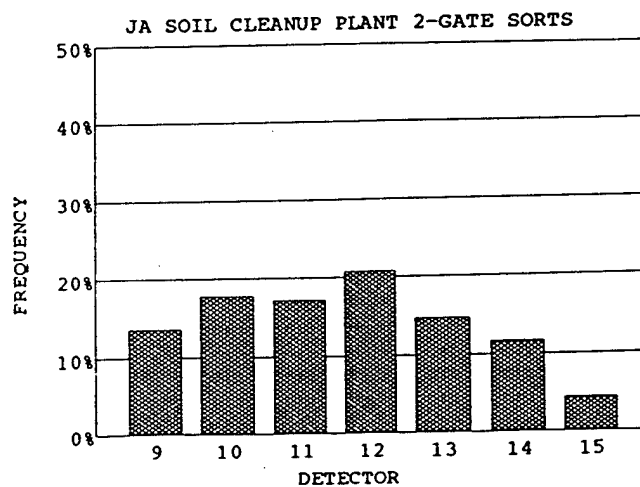
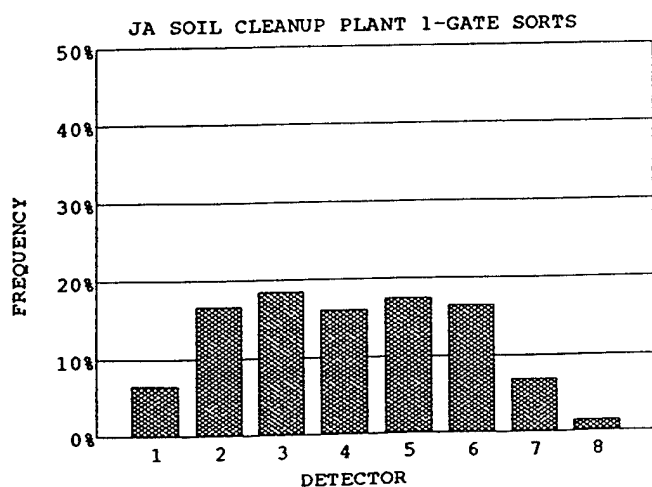
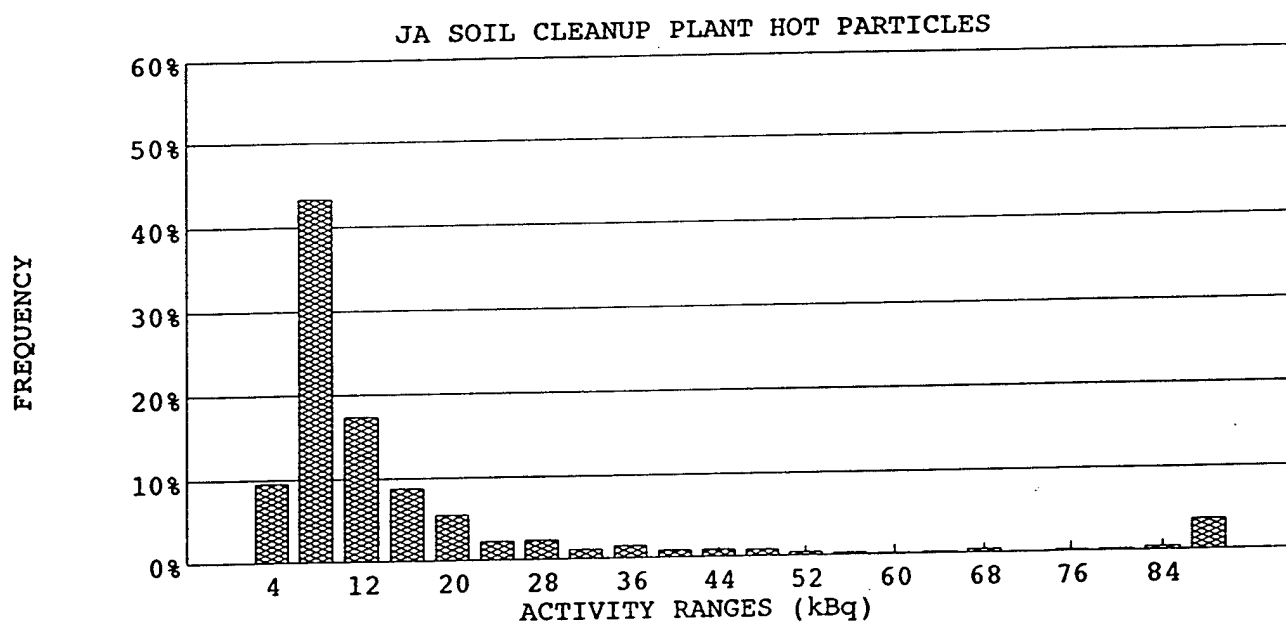
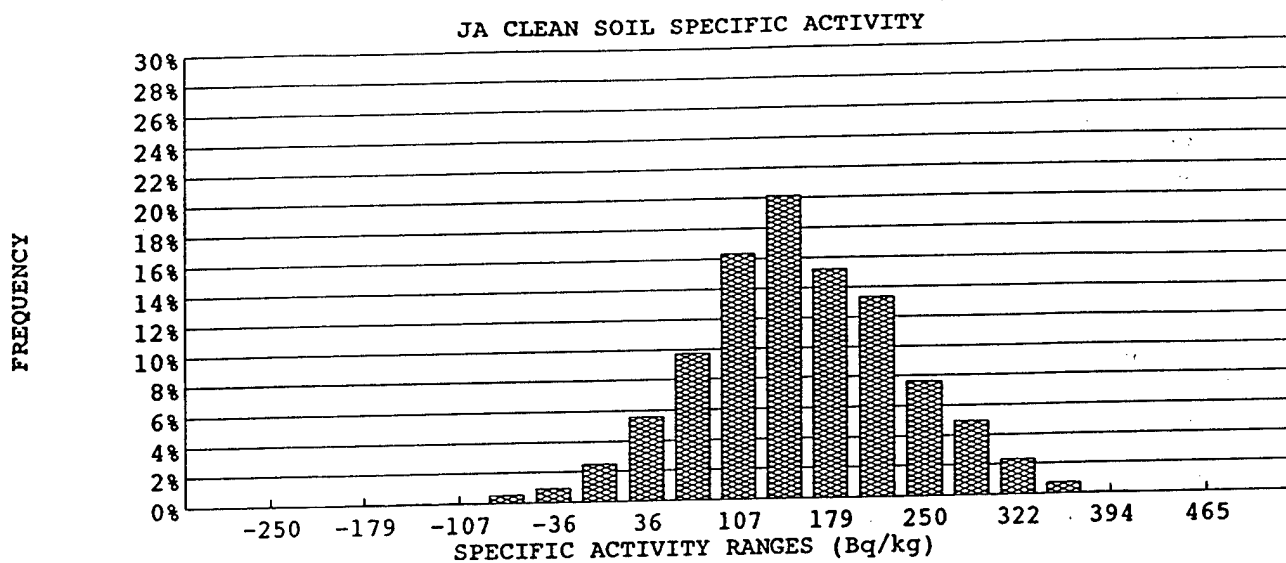
Date	01-Mar-94	Excused Delays for day (sorter-hrs)	20 hr
Contract day (from 6 Sep)	140	Excused delays for contract (sorter-hrs)	2,046 hr
Current Contract week	24	Excused delay days (plant-days)	51 days
		Excused delay months (plant-month)	1.97 months
Soil production for Day	192 MT		
Cumulative Soil Production for Week	385 MT	Percent of contract completed	35.3%
Total Soil production for contract		Tons Ahead or Behind Schedule	1,784 MT
Since 6 Sep 93	33,719 MT	Days ahead or behind schedule	6 days
Since 6 Aug 93	35,310 MT		
Total Soil production for project	61,596 MT		

MT = metric tons

SORTER 1				01-Mar-94					
SORTER SOIL DENSITY		1.20 tons/m³		BACKGROUND		0.67 ± 0.03 c/s			
SOIL		CONTAMINATED		CLEAN		TOTAL			
MASS TOTAL		1.0 tons		95.0 tons		96.0 tons			
MAXIMUM/SORT		58.1 kg		55.9 kg					
MINIMUM/SORT		0.7 kg		51.0 kg					
VOLUME IN-GROUND		0.8 yd³		75.3 yd³		76.1 yd³			
WEIGHT RECOVERY (CLEAN/(HOT+CLEAN))		98.9%							
ACTIVITY				DISPERSED + PARTICLE					
		PARTICLE		HOT		CLEAN			
TOTAL		19,127 kBq		6,166 kBq		10,507 kBq			
MAXIMUM/SORT		1,223 kBq		730 kBq		19 kBq			
MINIMUM/SORT		3 kBq		0 Bq		-5 kBq			
SPECIFIC ACTIVITY				6,044 Bq/kg		111 Bq/kg			
SORTS									
20-SEC PROCESS PERIODS				1,717		UNEXP PAUSE			
ALL 80 ELEMENTS SORT (MD>0&MND=0)				7		TIME TIME			
NONE (AD=0 & MD=0 & MND>0)				1,324		07:21 06:40			
SOME (AD>0&0<MD<MNDmax&MND<MNDmax)				386		08:12 15:26			
UNEXPLAINED RECORDS				0		09:08 15:43			
0<AD<1kBq & MD>0				6		09:46			
AD=0 & MD>0				1		14:28			
AD<0 & MD >0				0		15:21			
2-SEC COUNT PERIODS				17,170		15:27			
2-SEC RECORDS WITH SORTS				855					
2-SEC RECORDS WITHOUT SORTS				16,315					
TOTAL PROCESS RECORDS (2-s SORTS and 20-s PERIODS)				2,572					
NONPROCESSING RECORDS (Test, calibration, etc)				6					
2-SEC SORT DETECTORS									
1 DET		618	72.3%	5 DET	0	0.0%			
2 DET		202	23.6%	6 DET	0	0.0%			
3 DET		32	3.7%	7 DET	0	0.0%			
4 DET		3	0.4%	8 DET	0	0.0%			
AVERAGE TIME BETWEEN 2-SEC SORTS				55.6 sec					
FREQUENCY DISTRIBUTIONS									
1-GATE SORTS			ACT_ND	NUM	SPEC_A	FREQ%	ACT_P	NUM	FREQ%
DET	SORTS	FREQ%	(Bq)	(#)	(Bq/kg)		(kBq)	(#)	
1	13	3.1%	-14000	0	-250	0.0%	4	43	5.0%
2	55	12.9%	-12000	1	-215	0.1%	8	395	46.2%
3	57	13.4%	-10000	0	-179	0.0%	12	146	17.1%
4	71	16.7%	-8000	2	-143	0.1%	16	54	6.3%
5	91	21.4%	-6000	1	-107	0.1%	20	49	5.7%
6	69	16.2%	-4000	4	-72	0.2%	24	35	4.1%
7	59	13.9%	-2000	22	-36	1.3%	28	14	1.6%
8	10	2.4%	0	87	0	5.0%	32	16	1.9%
TOTAL	425		2000	175	36	10.2%	36	10	1.2%
			4000	217	72	12.6%	40	14	1.6%
			6000	376	107	21.8%	44	10	1.2%
2-GATE SORTS			8000	329	143	19.1%	48	10	1.2%
9	46	10.7%	10000	211	179	12.2%	52	3	0.4%
10	60	14.0%	12000	153	215	8.9%	56	3	0.4%
11	65	15.1%	14000	71	250	4.1%	60	5	0.6%
12	80	18.6%	16000	46	286	2.7%	64	5	0.6%
13	84	19.5%	18000	20	322	1.2%	68	5	0.6%
14	54	12.6%	20000	8	358	0.5%	72	1	0.1%
15	41	9.5%	22000	0	394	0.0%	76	1	0.1%
TOTAL	430		24000	0	429	0.0%	80	1	0.1%
			26000	0	465	0.0%	84	2	0.2%
			>28000	0	0	0.0%	>84	33	3.9%
			TOTAL	1,723			TOTAL	855	
EVENT TYPES		HPE	874	MPE	24	DISE	560		



SORTER 2										01-Mar-94	
SORTER SOIL DENSITY				1.20 tons/m ³		BACKGROUND				0.77 ± 0.04 c/s	
SOIL		CONTAMINATED				CLEAN				TOTAL	
MASS TOTAL		1.1 tons				95.4 tons				96.5 tons	
MAXIMUM/SORT		58.1 kg				55.9 kg					
MINIMUM/SORT		0.7 kg				45.4 kg					
VOLUME IN-GROUND		0.8 yd ³				75.6 yd ³				76.5 yd ³	
WEIGHT RECOVERY (CLEAN/(HOT+CLEAN))		98.9%									
ACTIVITY		PARTICLE				DISPERSED + PARTICLE					
						HOT				CLEAN	
TOTAL		22,550 kBq				7,555 kBq				13,106 kBq	
MAXIMUM/SORT		2,964 kBq				1,846 kBq				20 kBq	
MINIMUM/SORT		3 kBq				0 Bq				-11 kBq	
SPECIFIC ACTIVITY						7,150 Bq/kg				137 Bq/kg	
SORTS											
20-SEC PROCESS PERIODS						1,726		UNEXP		PAUSE	
ALL 80 ELEMENTS SORT (MD>0&MND=0)						5		TIME		TIME	
NONE (AD=0 & MD=0 & MND>0)						1,269		15:40		None	
SOME (AD>0&0<MD<MNDmax&MND<MNDmax)						452		15:52			
UNEXPLAINED RECORDS						0					
0<AD<1kBq & MD>0						2					
AD=0 & MD>0						0					
AD<0 & MD >0						0					
2-SEC COUNT PERIODS						17,260					
2-SEC RECORDS WITH SORTS						1,016					
2-SEC RECORDS WITHOUT SORTS						16,244					
TOTAL PROCESS RECORDS (2-s SORTS and 20-s PERIODS)						2,742					
NONPROCESSING RECORDS (Test, calibration, etc)						2					
2-SEC SORT DETECTORS											
1 DET		767	75.5%	5 DET		0	0.0%				
2 DET		197	19.4%	6 DET		0	0.0%				
3 DET		42	4.1%	7 DET		0	0.0%				
4 DET		10	1.0%	8 DET		0	0.0%				
AVERAGE TIME BETWEEN 2-SEC SORTS						45.0 sec					
FREQUENCY DISTRIBUTIONS											
1-GATESORTS			ACT_ND	NUM	SPEC_A	FREQ%	ACT_P	NUM	FREQ%		
DET	SORTS	FREQ%	(Bq)	(#)	(Bq/kg)		(kBq)	(#)			
1	32	6.5%	-14000	0	-250	0.0%	4	97	9.5%		
2	82	16.7%	-12000	0	-215	0.0%	8	440	43.3%		
3	91	18.5%	-10000	1	-179	0.1%	12	176	17.3%		
4	79	16.1%	-8000	1	-143	0.1%	16	89	8.8%		
5	86	17.5%	-6000	1	-107	0.1%	20	56	5.5%		
6	81	16.5%	-4000	9	-72	0.5%	24	23	2.3%		
7	34	6.9%	-2000	16	-36	0.9%	28	24	2.4%		
8	7	1.4%	0	43	0	2.5%	32	11	1.1%		
TOTAL	492		2000	96	36	5.6%	36	15	1.5%		
			4000	168	72	9.7%	40	9	0.9%		
			6000	282	107	16.3%	44	9	0.9%		
2-GATESORTS			8000	348	143	20.1%	48	8	0.8%		
DET	SORTS	FREQ%	10000	263	179	15.2%	52	4	0.4%		
9	71	13.5%	12000	230	215	13.3%	56	3	0.3%		
10	93	17.7%	14000	132	250	7.6%	60	1	0.1%		
11	90	17.2%	16000	85	286	4.9%	64	2	0.2%		
12	109	20.8%	18000	40	322	2.3%	68	4	0.4%		
13	77	14.7%	20000	12	358	0.7%	72	0	0.0%		
14	61	11.6%	22000	1	394	0.1%	76	2	0.2%		
15	23	4.4%	24000	0	429	0.0%	80	2	0.2%		
TOTAL	524		26000	0	465	0.0%	84	4	0.4%		
			>28000	0	0	0.0%	>84	37	3.6%		
			TOTAL	1,728			TOTAL	1,016			
EVENT TYPES		HPE	1,066	MPE	20	DISE	424				



WORK HISTORY - JA SOIL CLEANUP PLANT

02-Mar-94

WORK DAY START	06:00 AM	WORK DAY END	16:30 PM
LUNCH START	11:00 AM	TIME LOST DURING LUNCH	0.0 HR

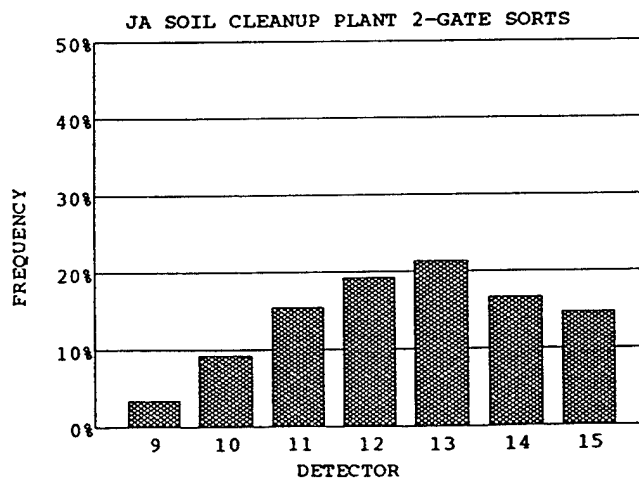
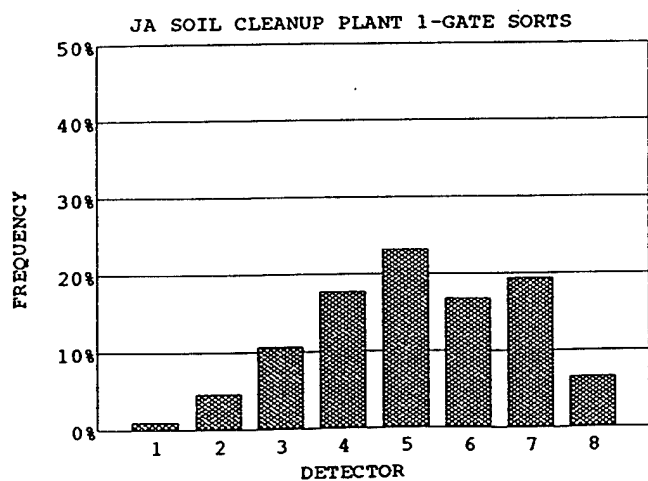
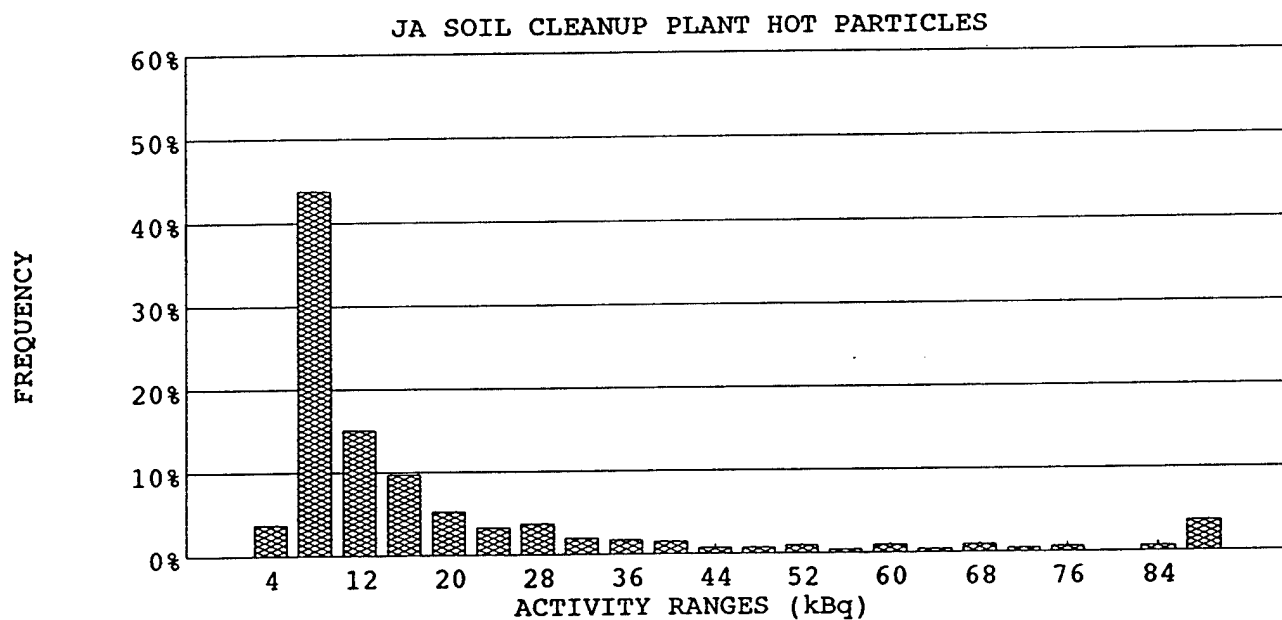
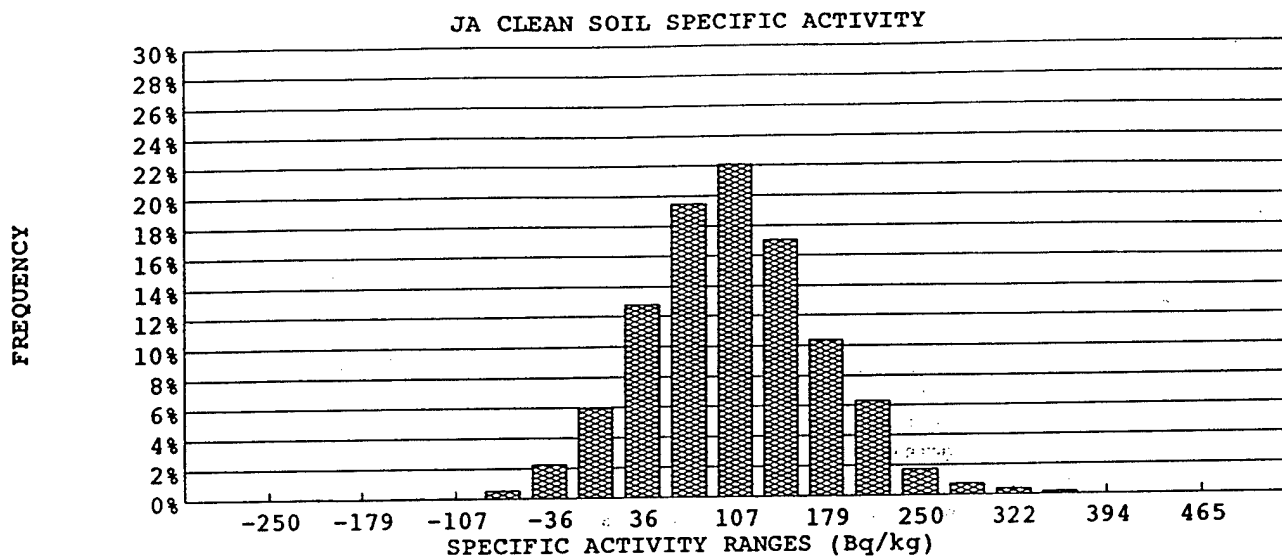
	SORTER 1	SORTER 2	SORTER 3	SORTER 4	TOTAL (sorter hours)
WORK HOURS	10.5 hr	10.5 hr	10.5 hr	10.5 hr	42.0 hr
SORTER AVAILABLE HOURS	9.8 hr	10.3 hr	0.0 hr	0.0 hr	20.2 hr
SORTER START-UP	06:00	06:00	NA	NA	
START SOIL PROCESSING	06:13	06:13	NA	NA	
TIME REQUIRED TO START-UP	0.2 hr	0.2 hr	0.0 hr	0.0 hr	0.4 hr
SORTER SHUT-DOWN	16:20	16:20	NA	NA	
END SOIL PROCESSING	15:55	15:57	NA	NA	
TIME REQUIRED TO SHUT DOWN	0.4 hr	0.4 hr	0.0 hr	0.0 hr	0.8 hr
ACTUAL PROCESS HOURS	9.7 hr	9.7 hr	0.0 hr	0.0 hr	19.4 hr
DOWN-TIME	0.2 hr	0.6 hr	0.0 hr	0.0 hr	0.8 hr
SYSTEM PAUSE	0.0 hr	0.0 hr	0.0 hr	0.0 hr	0.0 hr
SORTER NONAVAILABLE TIME	0.7 hr	0.2 hr	10.0 hr	10.0 hr	20.8 hr
AUTHORIZED DELAY TIME	0.0 hr	0.0 hr	10.0 hr	10.0 hr	20.0 hr
PLANT PERFORMANCE					96.3%
PRODUCTIVITY					46.2%

PRODUCTIVITY

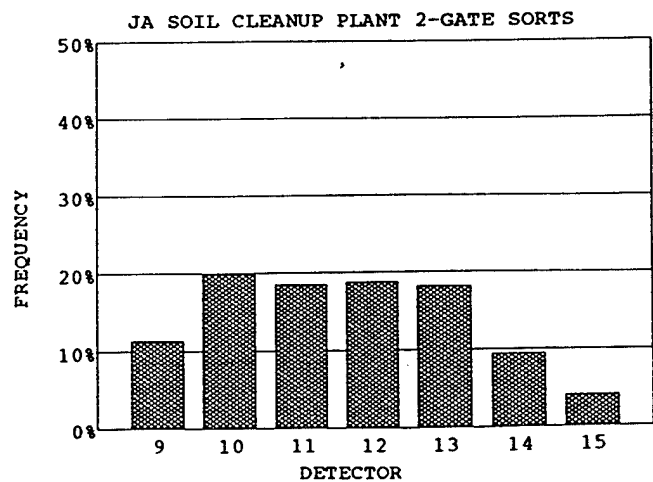
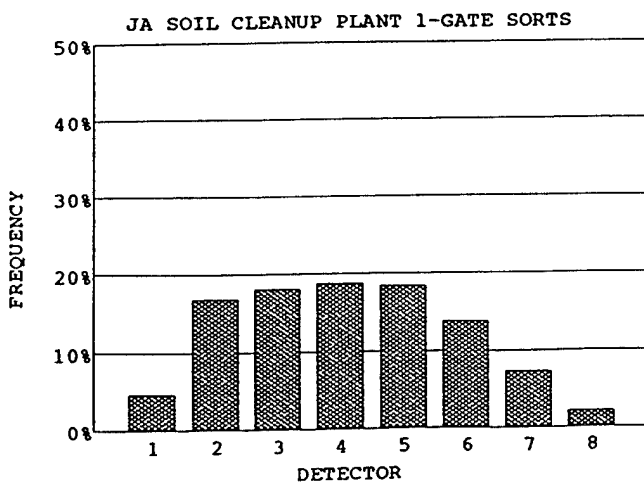
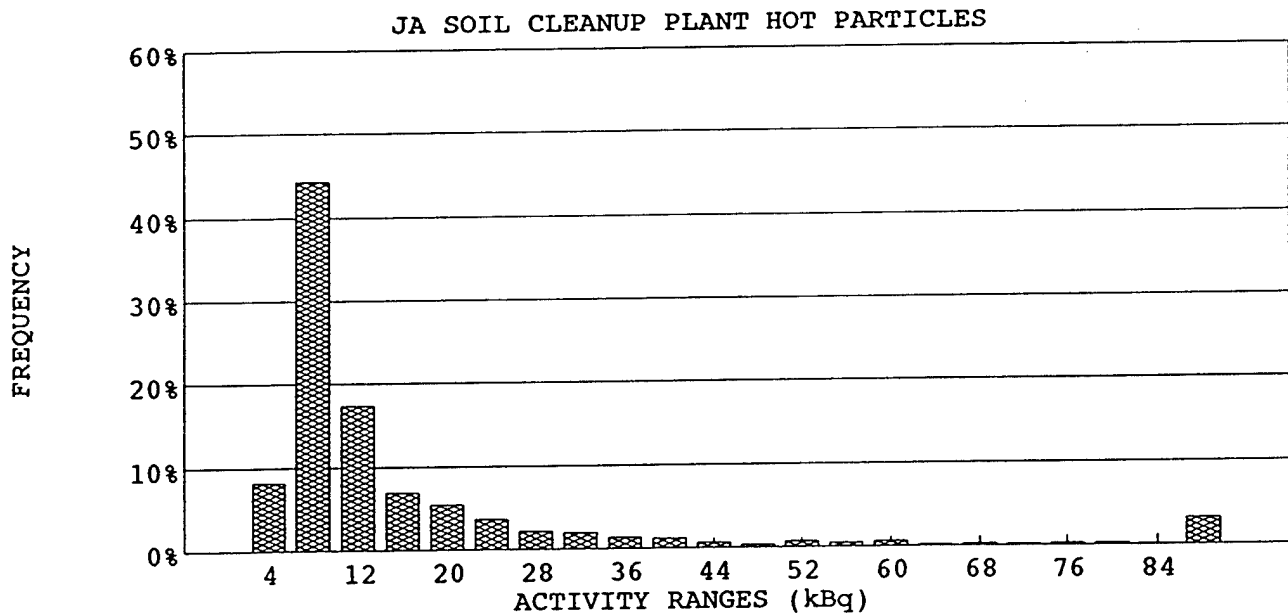
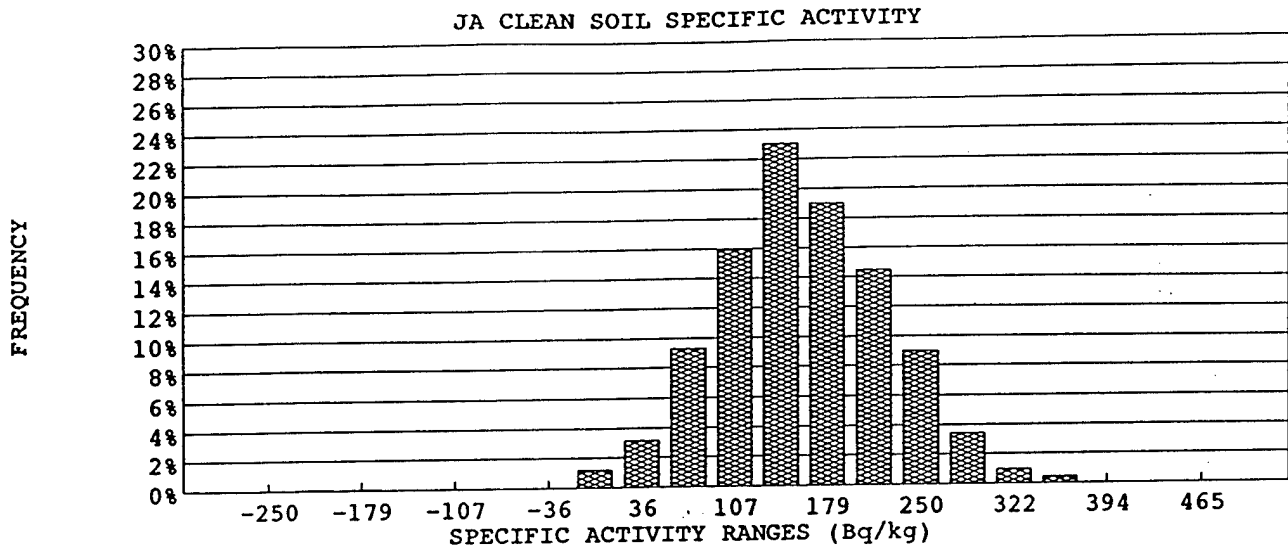
Date	02-Mar-94	Excused Delays for day (sorter-hrs)	20 hr
Contract day (from 6 Sep)	141	Excused delays for contract (sorter-hrs)	2,066 hr
Current Contract week	24	Excused delay days (plant-days)	52 days
		Excused delay months (plant-month)	1.99 months
Soil production for Day	195 MT		
Cumulative Soil Production for Week	580 MT	Percent of contract completed	35.5%
Total Soil production for contract		Tons Ahead or Behind Schedule	1,821 MT
Since 6 Sep 93	33,914 MT	Days ahead or behind schedule	6 days
Since 6 Aug 93	35,505 MT		
Total Soil production for project	61,792 MT		

MT = metric tons

SORTER 1				02-Mar-94				
SORTER SOIL DENSITY		1.20 tons/m ³		BACKGROUND		0.67 ±	0.02 c/s	
SOIL		CONTAMINATED		CLEAN		TOTAL		
MASS TOTAL		0.7 tons		96.6 tons		97.3 tons		
MAXIMUM/SORT		58.1 kg		55.9 kg				
MINIMUM/SORT		0.7 kg		50.3 kg				
VOLUME IN-GROUND		0.6 yd ³		76.6 yd ³		77.1 yd ³		
WEIGHT RECOVERY (CLEAN/(HOT+CLEAN))		99.2%						
ACTIVITY		PARTICLE		DISPERSED + PARTICLE				
				HOT		CLEAN		
TOTAL		16,487 kBq		5,291 kBq		8,578 kBq		
MAXIMUM/SORT		360 kBq		205 kBq		19 kBq		
MINIMUM/SORT		3 kBq		0 Bq		-9 kBq		
SPECIFIC ACTIVITY				7,186 Bq/kg		89 Bq/kg		
SORTS				1,741		UNEXP PAUSE		
20-SEC PROCESS PERIODS						TIME TIME		
ALL 80 ELEMENTS SORT (MD>0&MND=0)				2		09:11 13:51		
NONE (AD=0 & MD=0 & MND>0)				1,348		12:01		
SOME (AD>0&0<MD<MNDmax&MND<MNDmax)				391		13:37		
UNEXPLAINED RECORDS				0				
0<AD<1kBq & MD>0				3				
AD=0 & MD>0				0				
AD<0 & MD >0				0				
2-SEC COUNT PERIODS				17,410				
2-SEC RECORDS WITH SORTS				832				
2-SEC RECORDS WITHOUT SORTS				16,578				
TOTAL PROCESS RECORDS (2-s SORTS and 20-s PERIODS)				2,573				
NONPROCESSING RECORDS (Test, calibration, etc)				1				
2-SEC SORT DETECTORS								
1 DET		598	71.9%	5 DET	2	0.2%		
2 DET		193	23.2%	6 DET	0	0.0%		
3 DET		33	4.0%	7 DET	0	0.0%		
4 DET		6	0.7%	8 DET	0	0.0%		
AVERAGE TIME BETWEEN 2-SEC SORTS				58.2 sec				
FREQUENCY DISTRIBUTIONS								
1-GATE SORTS		ACT_ND	NUM	SPEC_A	FREQ%	ACT_P	NUM	FREQ%
DET	SORTS	(Bq)	(#)	(Bq/kg)		(kBq)	(#)	
1	4	1.0%	-14000	0	-250 0.0%	4	31	3.7%
2	19	4.6%	-12000	1	-215 0.1%	8	364	43.8%
3	44	10.7%	-10000	0	-179 0.0%	12	126	15.1%
4	73	17.8%	-8000	1	-143 0.1%	16	81	9.7%
5	95	23.1%	-6000	1	-107 0.1%	20	44	5.3%
6	69	16.8%	-4000	9	-72 0.5%	24	27	3.2%
7	80	19.5%	-2000	39	-36 2.2%	28	31	3.7%
8	27	6.6%	0	103	0 5.9%	32	16	1.9%
TOTAL	411		2000	223	36 12.8%	36	14	1.7%
2-GATE SORTS			4000	339	72 19.5%	40	12	1.4%
DET	SORTS	FREQ%	6000	385	107 22.1%	44	6	0.7%
9	14	3.3%	8000	297	143 17.0%	48	6	0.7%
10	39	9.3%	10000	181	179 10.4%	52	8	1.0%
11	65	15.4%	12000	110	215 6.3%	56	3	0.4%
12	81	19.2%	14000	30	250 1.7%	60	8	1.0%
13	90	21.4%	16000	13	286 0.7%	64	3	0.4%
14	70	16.6%	18000	7	322 0.4%	68	8	1.0%
15	62	14.7%	20000	3	358 0.2%	72	4	0.5%
TOTAL	421		22000	0	394 0.0%	76	5	0.6%
			24000	0	429 0.0%	80	0	0.0%
			26000	0	465 0.0%	84	5	0.6%
			>28000	0	0 0.0%	>84	30	3.6%
			TOTAL	1,742		TOTAL	832	
EVENT TYPES		HPE	861	MPE	28	DISE	163	



02-Mar-94									
SORTER 2									
SORTER SOIL DENSITY				1.20 tons/m ³		BACKGROUND		0.79 ± 0.02 c/s	
SOIL				CONTAMINATED		CLEAN		TOTAL	
MASS TOTAL				0.9 tons		97.1 tons		98.0 tons	
MAXIMUM/SORT				55.9 kg		55.9 kg			
MINIMUM/SORT				0.7 kg		46.1 kg			
VOLUME IN-GROUND				0.7 yd ³		77.0 yd ³		77.7 yd ³	
WEIGHT RECOVERY (CLEAN/(HOT+CLEAN))				99.1%					
ACTIVITY				PARTICLE		DISPERSED + PARTICLE			
						HOT		CLEAN	
TOTAL				24,344 kBq		7,794 kBq		13,914 kBq	
MAXIMUM/SORT				2,893 kBq		1,581 kBq		19 kBq	
MINIMUM/SORT				3 kBq		0 Bq		-2 kBq	
SPECIFIC ACTIVITY						8,587 Bq/kg		143 Bq/kg	
SORTS									
20-SEC PROCESS PERIODS						1,753		UNEXP PAUSE	
ALL 80 ELEMENTS SORT (MD>0&MND=0)						2		TIME TIME	
NONE (AD=0 & MD=0 & MND>0)						1,263		11:22 None	
SOME (AD>0&0<MD<MNDmax&MND<MNDmax)						488			
UNEXPLAINED RECORDS						0			
0<AD<1kBq & MD>0						1			
AD=0 & MD>0						0			
AD<0 & MD >0						0			
2-SEC COUNT PERIODS						17,530			
2-SEC RECORDS WITH SORTS						1,087			
2-SEC RECORDS WITHOUT SORTS						16,443			
TOTAL PROCESS RECORDS (2-s SORTS and 20-s PERIODS)						2,840			
NONPROCESSING RECORDS (Test, calibration, etc)						2			
2-SEC SORT DETECTORS									
1 DET		817	75.2%	5 DET		0	0.0%		
2 DET		212	19.5%	6 DET		0	0.0%		
3 DET		51	4.7%	7 DET		0	0.0%		
4 DET		7	0.6%	8 DET		0	0.0%		
AVERAGE TIME BETWEEN 2-SEC SORTS						42.9 sec			
FREQUENCY DISTRIBUTIONS									
1-GATESORTS			ACT_ND	NUM	SPEC_A	FREQ%	ACT_P	NUM	FREQ%
			(Bq)	(#)	(Bq/kg)		(kBq)	(#)	
DET	SORTS	FREQ%							
1	26	4.6%	-14000	0	-250	0.0%	4	89	8.2%
2	95	16.8%	-12000	1	-215	0.1%	8	482	44.3%
3	102	18.1%	-10000	1	-179	0.1%	12	189	17.4%
4	106	18.8%	-8000	0	-143	0.0%	16	75	6.9%
5	104	18.4%	-6000	0	-107	0.0%	20	59	5.4%
6	78	13.8%	-4000	0	-72	0.0%	24	40	3.7%
7	41	7.3%	-2000	0	-36	0.0%	28	24	2.2%
8	12	2.1%	0	21	0	1.2%	32	21	1.9%
TOTAL			2000	55	36	3.1%	36	15	1.4%
			4000	163	72	9.3%	40	13	1.2%
			6000	280	107	16.0%	44	7	0.6%
2-GATESORTS			8000	404	143	23.0%	48	4	0.4%
DET	SORTS	FREQ%	10000	333	179	19.0%	52	8	0.7%
9	59	11.3%	12000	254	215	14.5%	56	5	0.5%
10	104	19.9%	14000	158	250	9.0%	60	7	0.6%
11	97	18.5%	16000	60	286	3.4%	64	2	0.2%
12	98	18.7%	18000	17	322	1.0%	68	3	0.3%
13	95	18.2%	20000	8	358	0.5%	72	2	0.2%
14	49	9.4%	22000	0	394	0.0%	76	3	0.3%
15	21	4.0%	24000	0	429	0.0%	80	3	0.3%
TOTAL			26000	0	465	0.0%	84	1	0.1%
			>28000	0	0	0.0%	>84	35	3.2%
			TOTAL	1,755			TOTAL	1,087	
EVENT TYPES			HPE	1,103	MPE	20	DISE	174	



WORK HISTORY - JA SOIL CLEANUP PLANT

03-Mar-94

WORK DAY START	05:50 AM	WORK DAY END	16:30 PM
LUNCH START	11:00 AM	TIME LOST DURING LUNCH	0.0 HR

	SORTER 1	SORTER 2	SORTER 3	SORTER 4	TOTAL (sorter hours)
WORK HOURS	10.7 hr	10.7 hr	10.7 hr	10.7 hr	42.7 hr
SORTER AVAILABLE HOURS	10.4 hr	10.4 hr	0.0 hr	0.0 hr	20.8 hr
SORTER START-UP	05:50	05:50	NA	NA	
START SOIL PROCESSING	06:28	06:28	NA	NA	
TIME REQUIRED TO START-UP	0.6 hr	0.6 hr	0.0 hr	0.0 hr	1.3 hr
SORTER SHUT-DOWN	16:15	16:15	NA	NA	
END SOIL PROCESSING	15:50	15:50	NA	NA	
TIME REQUIRED TO SHUT DOWN	0.4 hr	0.4 hr	0.0 hr	0.0 hr	0.8 hr
ACTUAL PROCESS HOURS	9.4 hr	9.4 hr	0.0 hr	0.0 hr	18.8 hr
DOWN-TIME	1.0 hr	1.0 hr	0.0 hr	0.0 hr	2.1 hr
SYSTEM PAUSE	0.0 hr	0.0 hr	0.0 hr	0.0 hr	0.0 hr
SORTER NONAVAILABLE TIME	0.2 hr	0.2 hr	10.0 hr	10.0 hr	20.5 hr
AUTHORIZED DELAY TIME	0.0 hr	0.0 hr	10.0 hr	10.0 hr	20.0 hr
PLANT PERFORMANCE					90.1%
PRODUCTIVITY					44.0%

PRODUCTIVITY

Date	03-Mar-94	Excused Delays for day (sorter-hrs)	20 hr
Contract day (from 6 Sep)	142	Excused delays for contract (sorter-hrs)	2,086 hr
Current Contract week	24	Excused delay days (plant-days)	52 days
		Excused delay months (plant-month)	2.01 months
Soil production for Day	189 MT		
Cumulative Soil Production for Week	769 MT	Percent of contract completed	35.7%
Total Soil production for contract		Tons Ahead or Behind Schedule	1,852 MT
Since 6 Sep 93	34,103 MT	Days ahead or behind schedule	6 days
Since 6 Aug 93	35,694 MT		
Total Soil production for project	61,980 MT		

MT = metric tons

SORTER 1

03-Mar-94

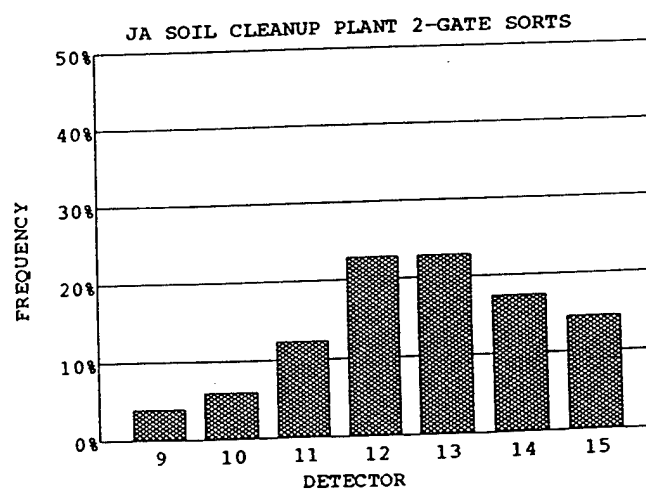
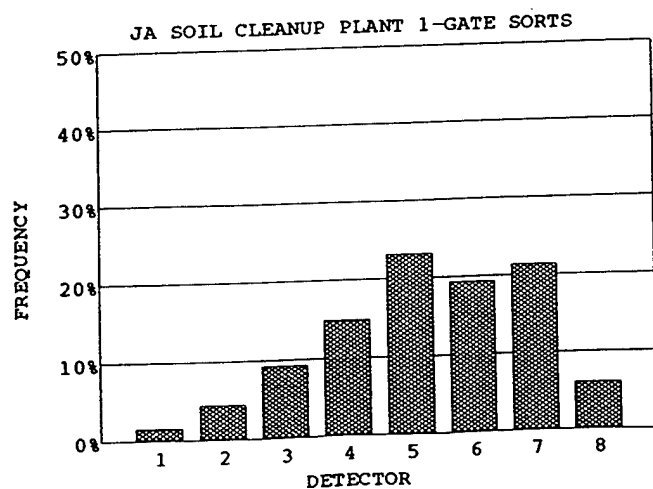
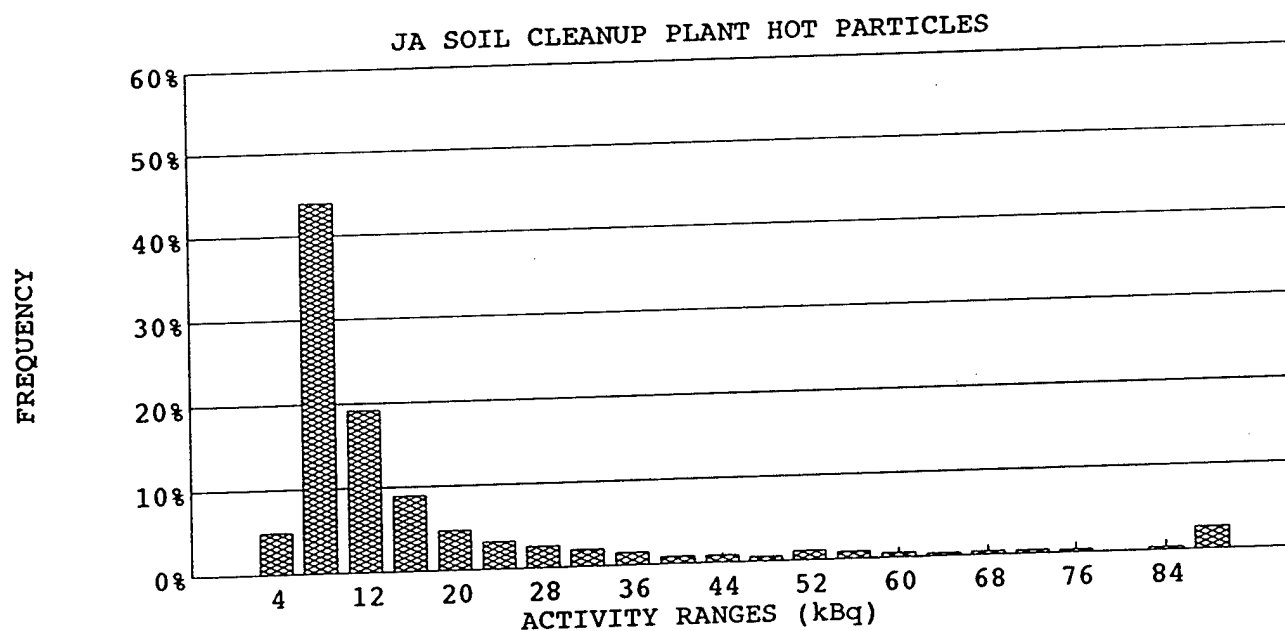
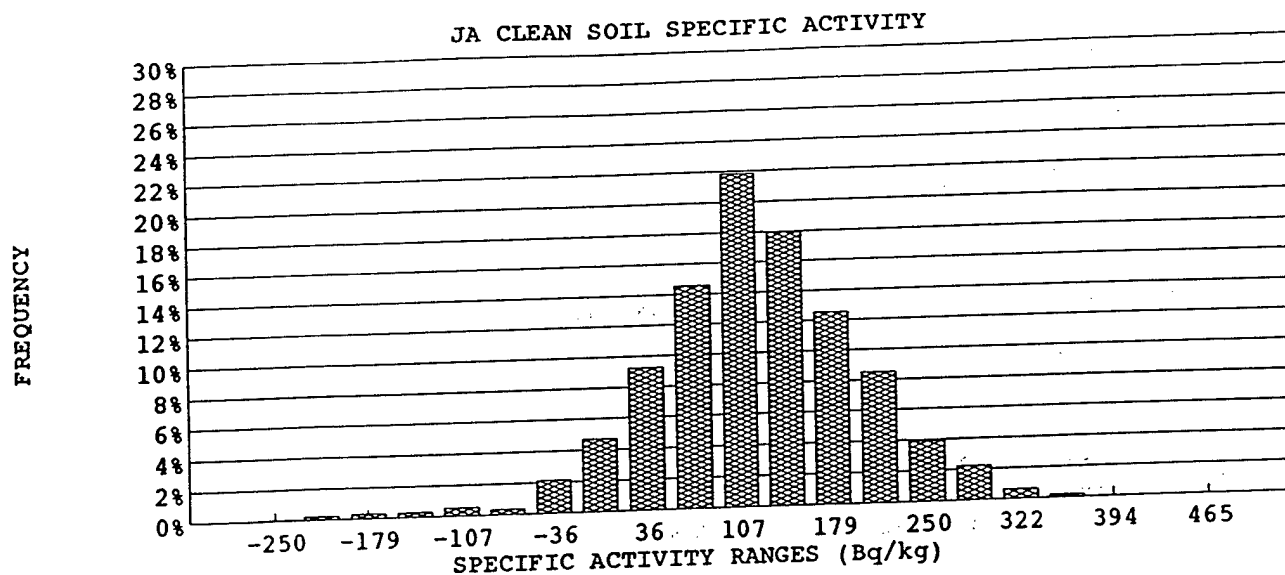
SORTER SOIL DENSITY		1.20 tons/m³	BACKGROUND		0.67 ± 0.02 c/s
SOIL	CONTAMINATED		CLEAN	TOTAL	
MASS TOTAL	0.8 tons		93.6 tons	94.4 tons	
MAXIMUM/SORT	55.9 kg		55.9 kg		
MINIMUM/SORT	0.7 kg		48.9 kg		
VOLUME IN-GROUND	0.6 yd³		74.2 yd³	74.8 yd³	
WEIGHT RECOVERY (CLEAN/(HOT+CLEAN))		99.2%			

ACTIVITY	DISPERSED + PARTICLE		
	PARTICLE	HOT	CLEAN
TOTAL	41,280 kBq	13,307 kBq	9,628 kBq
MAXIMUM/SORT	10,305 kBq	8,155 kBq	18 kBq
MINIMUM/SORT	3 kBq	0 Bq	-14 kBq
SPECIFIC ACTIVITY		16,664 Bq/kg	103 Bq/kg

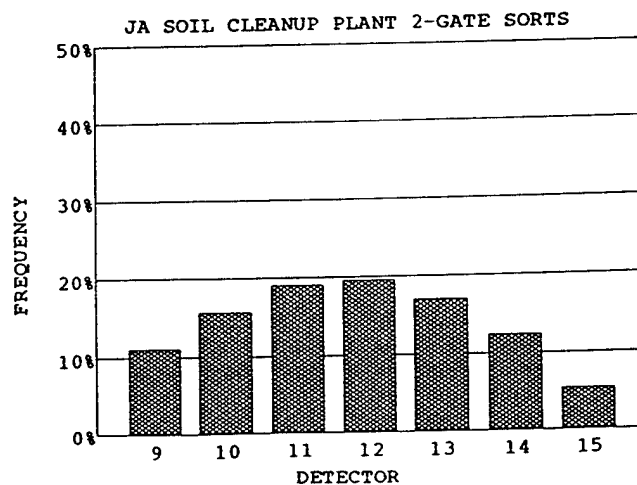
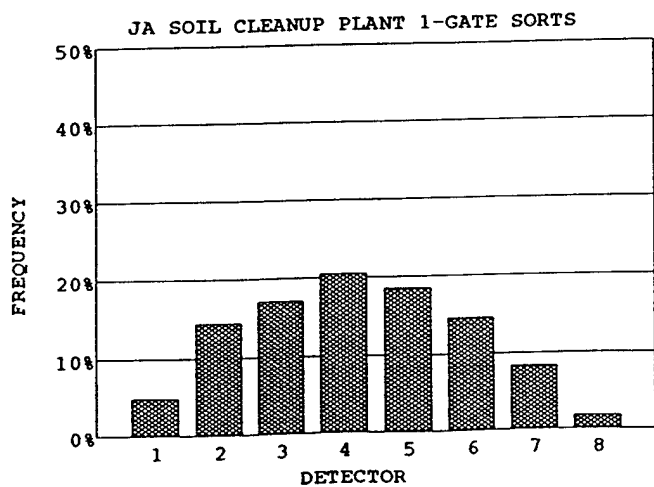
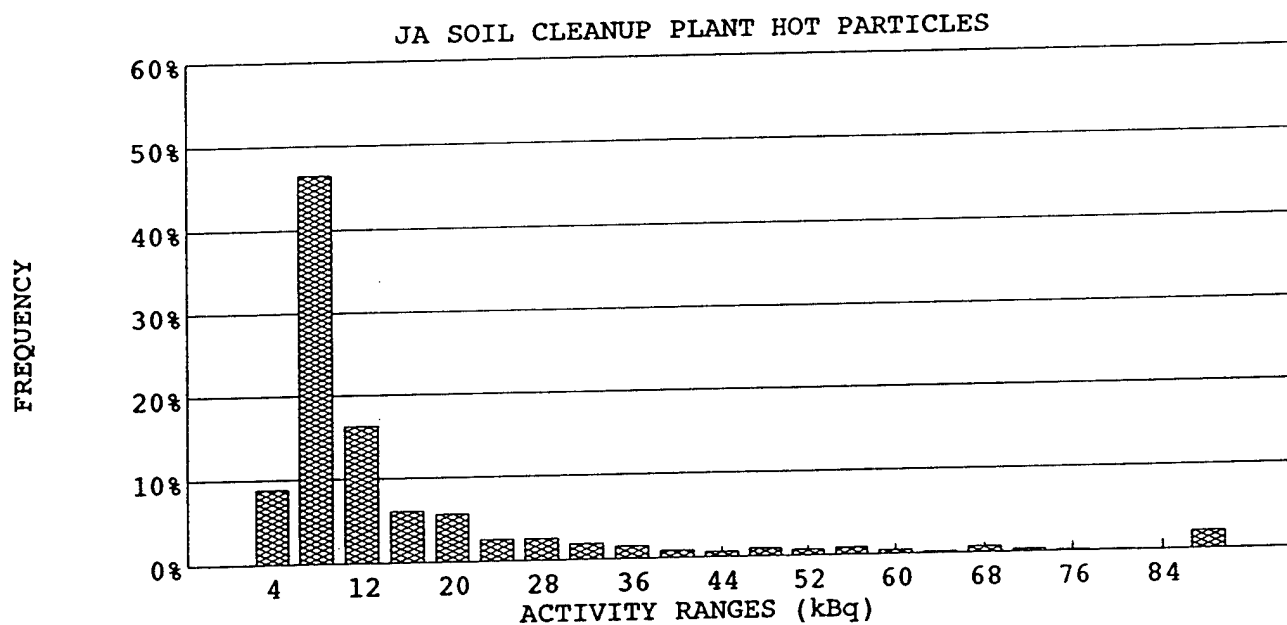
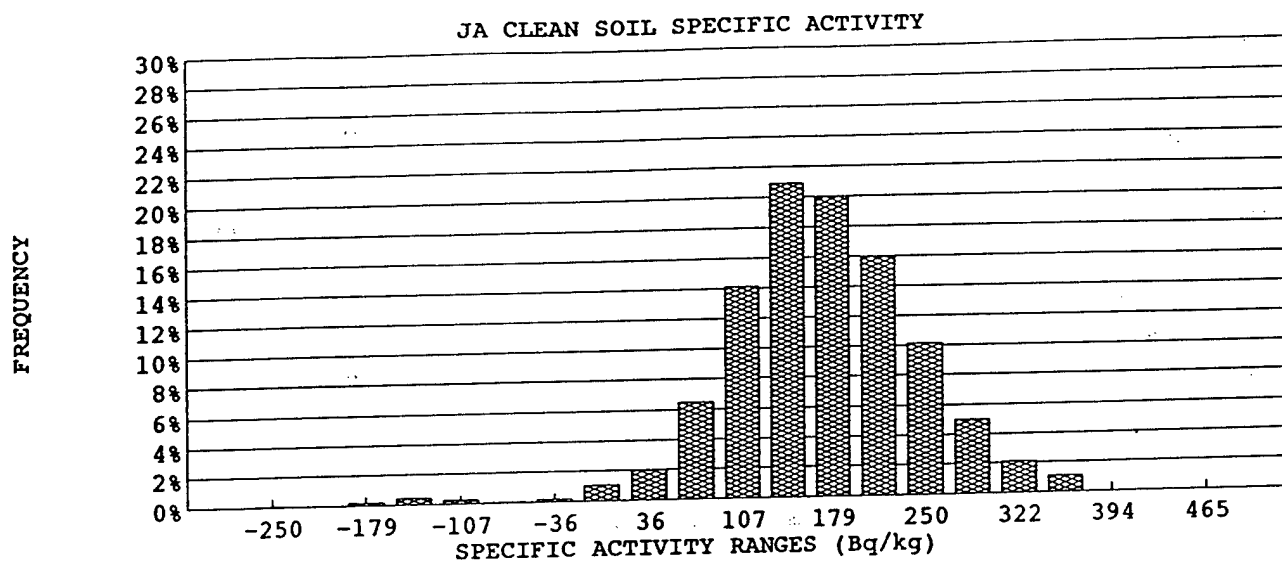
SORTS						
20-SEC PROCESS PERIODS				1,689		UNEXP PAUSE
ALL 80 ELEMENTS SORT (MD>0&MND=0)			2			TIME TIME
NONE (AD=0 & MD=0 & MND>0)			1,251			08:07 None
SOME (AD>0&0<MD<MNDmax&MND<MNDmax)			436			09:44
UNEXPLAINED RECORDS			0			12:58
0<AD<1kBq & MD>0			3			
AD=0 & MD>0			0			
AD<0 & MD >0			0			
2-SEC COUNT PERIODS				16,890		
2-SEC RECORDS WITH SORTS			951			
2-SEC RECORDS WITHOUT SORTS			15,939			
TOTAL PROCESS RECORDS (2-s SORTS and 20-s PERIODS)				2,640		
NONPROCESSING RECORDS (Test, calibration, etc)				4		
2-SEC SORT DETECTORS						
1 DET	692 72.8%	5 DET	2	0.2%		
2 DET	218 22.9%	6 DET	0	0.0%		
3 DET	34 3.6%	7 DET	0	0.0%		
4 DET	5 0.5%	8 DET	0	0.0%		
AVERAGE TIME BETWEEN 2-SEC SORTS			48.8 sec			

FREQUENCY DISTRIBUTIONS									
1-GATE SORTS		ACT_ND	NUM	SPEC_A	FREQ%	ACT_P	NUM	FREQ%	
DET	SORTS	(Bq)	(#)	(Bq/kg)		(kBq)	(#)		
1	8	1.6%	-14000	1	-250 0.1%	4	47	4.9%	
2	22	4.4%	-12000	4	-215 0.2%	8	418	44.0%	
3	46	9.3%	-10000	5	-179 0.3%	12	182	19.1%	
4	74	14.9%	-8000	5	-143 0.3%	16	85	8.9%	
5	115	23.1%	-6000	9	-107 0.5%	20	45	4.7%	
6	96	19.3%	-4000	6	-72 0.4%	24	31	3.3%	
7	106	21.3%	-2000	36	-36 2.1%	28	24	2.5%	
8	30	6.0%	0	79	0 4.7%	32	19	2.0%	
TOTAL	497		2000	156	36 9.2%	36	14	1.5%	
			4000	246	72 14.5%	40	8	0.8%	
			6000	370	107 21.9%	44	8	0.8%	
2-GATE SORTS			8000	304	143 18.0%	48	5	0.5%	
DET	SORTS	FREQ%	10000	212	179 12.5%	52	10	1.1%	
9	18	4.0%	12000	144	215 8.5%	56	8	0.8%	
10	27	5.9%	14000	66	250 3.9%	60	5	0.5%	
11	56	12.3%	16000	37	286 2.2%	64	3	0.3%	
12	104	22.9%	18000	10	322 0.6%	68	4	0.4%	
13	104	22.9%	20000	3	358 0.2%	72	4	0.4%	
14	79	17.4%	22000	0	394 0.0%	76	3	0.3%	
15	66	14.5%	24000	0	429 0.0%	80	0	0.0%	
TOTAL	454		26000	0	465 0.0%	84	3	0.3%	
			>28000	0	0 0.0%	>84	25	2.6%	
			TOTAL	1,693		TOTAL	951		
EVENT TYPES	HPE	953	MPE	20	DISE	168			

SORTER 1



SORTER 2		03-Mar-94			
SORTER SOIL DENSITY		1.20 tons/m ³		BACKGROUND	
				0.79 ± 0.03 c/s	
SOIL		CONTAMINATED		CLEAN	TOTAL
MASS TOTAL		1.4 tons		93.0 tons	94.4 tons
MAXIMUM/SORT		55.9 kg		55.9 kg	
MINIMUM/SORT		0.7 kg		47.5 kg	
VOLUME IN-GROUND		1.1 yd ³		73.7 yd ³	74.8 yd ³
WEIGHT RECOVERY (CLEAN/(HOT+CLEAN))		98.6%			
ACTIVITY		DISPERSED + PARTICLE			
		PARTICLE	HOT	CLEAN	
TOTAL		17,240 kBq	5,920 kBq	14,346 kBq	
MAXIMUM/SORT		239 kBq	184 kBq	20 kBq	
MINIMUM/SORT		3 kBq	0 Bq	-16 kBq	
SPECIFIC ACTIVITY			4,351 Bq/kg	154 Bq/kg	
SORTS				1,688	UNEXP PAUSE
20-SEC PROCESS PERIODS					TIME TIME
ALL 80 ELEMENTS SORT (MD>0&MND=0)		9			13:16 None
NONE (AD=0 & MD=0 & MND>0)		1,175			13:28
SOME (AD>0&0<MD<MNDmax&MND<MNDmax)		504			14:53
UNEXPLAINED RECORDS		0			15:46
0<AD<1kBq & MD>0		4			
AD=0 & MD>0		0			
AD<0 & MD >0		0			
2-SEC COUNT PERIODS				16,880	
2-SEC RECORDS WITH SORTS		1,151			
2-SEC RECORDS WITHOUT SORTS		15,729			
TOTAL PROCESS RECORDS (2-s SORTS and 20-s PERIODS)				2,839	
NONPROCESSING RECORDS (Test, calibration, etc)				4	
2-SEC SORT DETECTORS					
1 DET	864 75.1%	5 DET	1	0.1%	
2 DET	243 21.1%	6 DET	0	0.0%	
3 DET	37 3.2%	7 DET	0	0.0%	
4 DET	6 0.5%	8 DET	0	0.0%	
AVERAGE TIME BETWEEN 2-SEC SORTS		39.1 sec			
FREQUENCY DISTRIBUTIONS					
1-GATE SORTS		ACT_ND	NUM	SPEC_A	FREQ%
DET	SORTS	(Bq)	(#)	(Bq/kg)	
1	27	-14000	1	-250	0.1%
2	80	-12000	0	-215	0.0%
3	95	-10000	3	-179	0.2%
4	114	-8000	8	-143	0.5%
5	103	-6000	5	-107	0.3%
6	81	-4000	1	-72	0.1%
7	46	-2000	3	-36	0.2%
8	10	0	18	0	1.1%
TOTAL	556	2000	33	36	2.0%
		4000	109	72	6.4%
		6000	239	107	14.1%
2-GATE SORTS		8000	354	143	20.9%
DET	SORTS	FREQ%			
9	66	11.1%	10000	179	20.0%
10	93	15.6%	12000	215	16.0%
11	113	19.0%	14000	250	10.1%
12	116	19.5%	16000	286	5.0%
13	101	17.0%	18000	322	2.1%
14	74	12.4%	20000	358	1.1%
15	32	5.4%	22000	394	0.0%
TOTAL	595	24000	0	429	0.0%
		26000	0	465	0.0%
		>28000	0	0	0.0%
		TOTAL	1,692		
				TOTAL	1,151
EVENT TYPES		HPE	1,191	MPE	19
				DISE	735



WORK HISTORY - JA SOIL CLEANUP PLANT

04-Mar-94

WORK DAY START	06:00 AM	WORK DAY END	16:30 PM
LUNCH START	11:00 AM	TIME LOST DURING LUNCH	0.0 HR

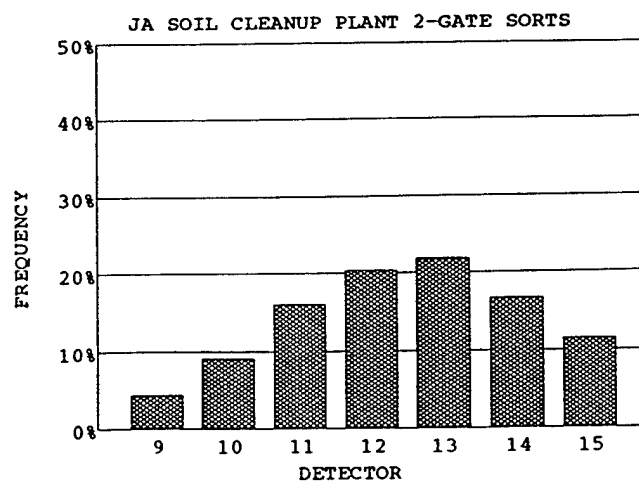
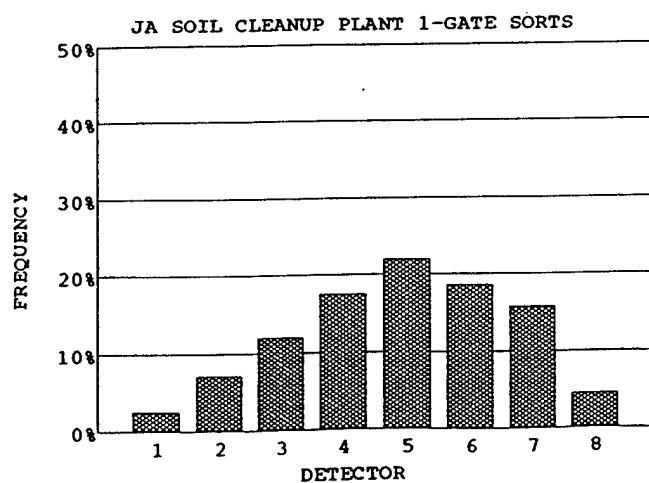
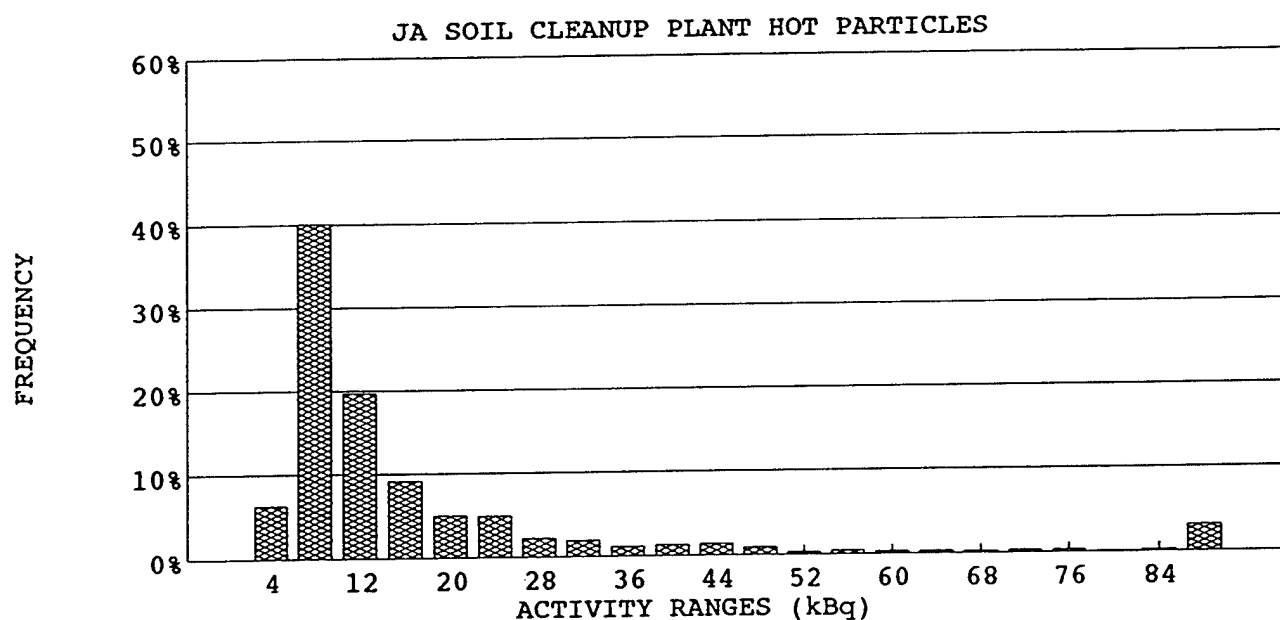
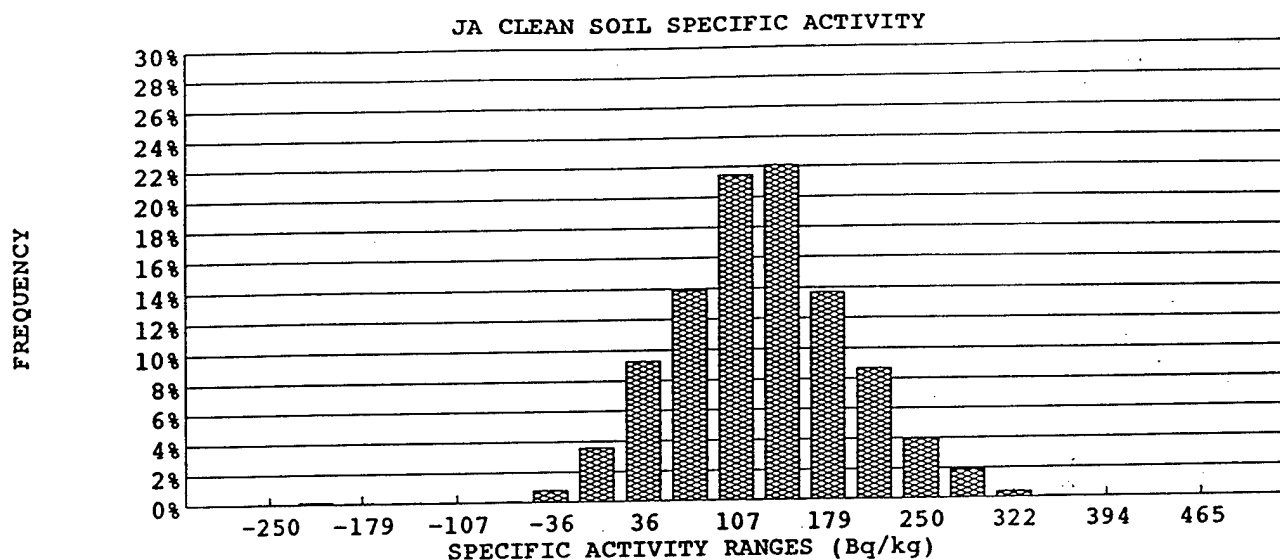
	SORTER 1	SORTER 2	SORTER 3	SORTER 4	TOTAL (sorter hours)
WORK HOURS	10.5 hr	10.5 hr	10.5 hr	10.5 hr	42.0 hr
SORTER AVAILABLE HOURS	10.3 hr	10.3 hr	0.0 hr	0.0 hr	20.5 hr
SORTER START-UP	06:00	06:00	NA	NA	
START SOIL PROCESSING	07:04	06:33	NA	NA	
TIME REQUIRED TO START-UP	1.1 hr	0.6 hr	0.0 hr	0.0 hr	1.6 hr
SORTER SHUT-DOWN	16:15	16:15	NA	NA	
END SOIL PROCESSING	15:51	15:50	NA	NA	
TIME REQUIRED TO SHUT DOWN	0.4 hr	0.4 hr	0.0 hr	0.0 hr	0.8 hr
ACTUAL PROCESS HOURS	8.7 hr	9.3 hr	0.0 hr	0.0 hr	18.0 hr
DOWN-TIME	1.5 hr	1.0 hr	0.0 hr	0.0 hr	2.5 hr
SYSTEM PAUSE	0.1 hr	0.0 hr	0.0 hr	0.0 hr	0.1 hr
SORTER NONAVAILABLE TIME	0.2 hr	0.2 hr	10.0 hr	10.0 hr	20.5 hr
AUTHORIZED DELAY TIME	0.0 hr	0.0 hr	10.0 hr	10.0 hr	20.0 hr
PLANT PERFORMANCE					87.9%
PRODUCTIVITY					42.9%

PRODUCTIVITY

Date	04-Mar-94	Excused Delays for day (sorter-hrs)	20 hr
Contract day (from 6 Sep)	143	Excused delays for contract (sorter-hrs)	2,106 hr
Current Contract week	24	Excused delay days (plant-days)	53 days
		Excused delay months (plant-month)	2.03 months
Soil production for Day	181 MT		
Cumulative Soil Production for Week	950 MT	Percent of contract completed	35.9%
Total Soil production for contract		Tons Ahead or Behind Schedule	1,875 MT
Since 6 Sep 93	34,284 MT	Days ahead or behind schedule	6 days
Since 6 Aug 93	35,875 MT		
Total Soil production for project	62,162 MT		

MT = metric tons

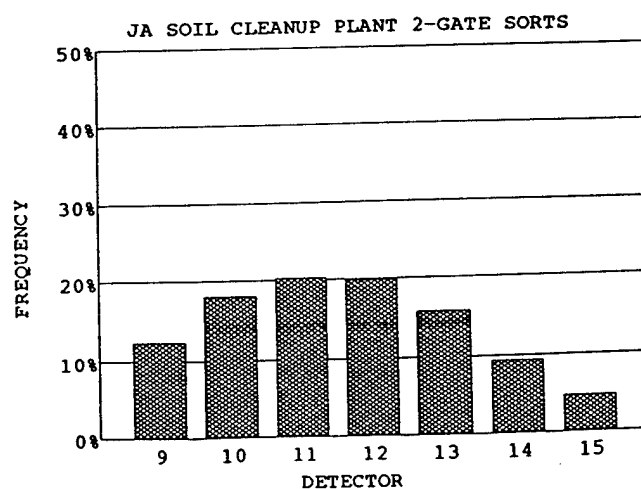
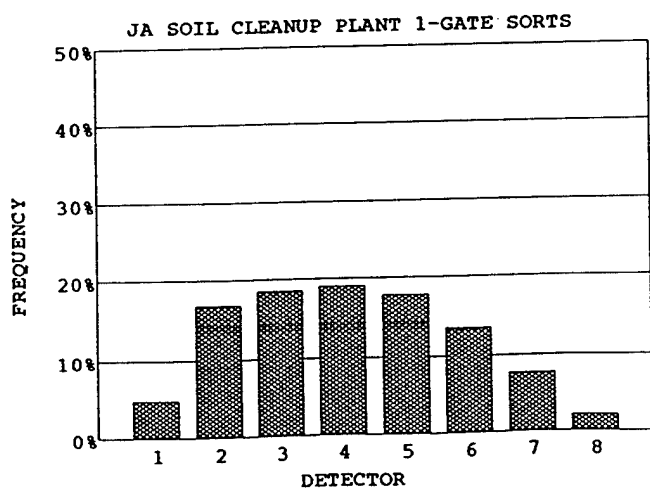
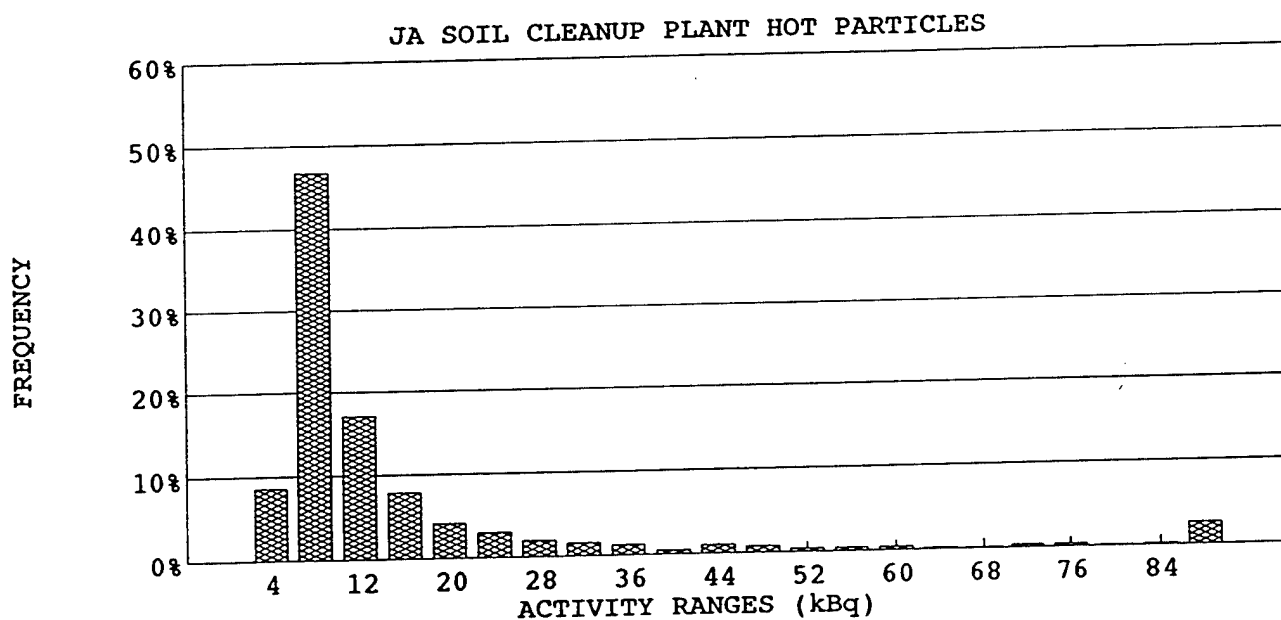
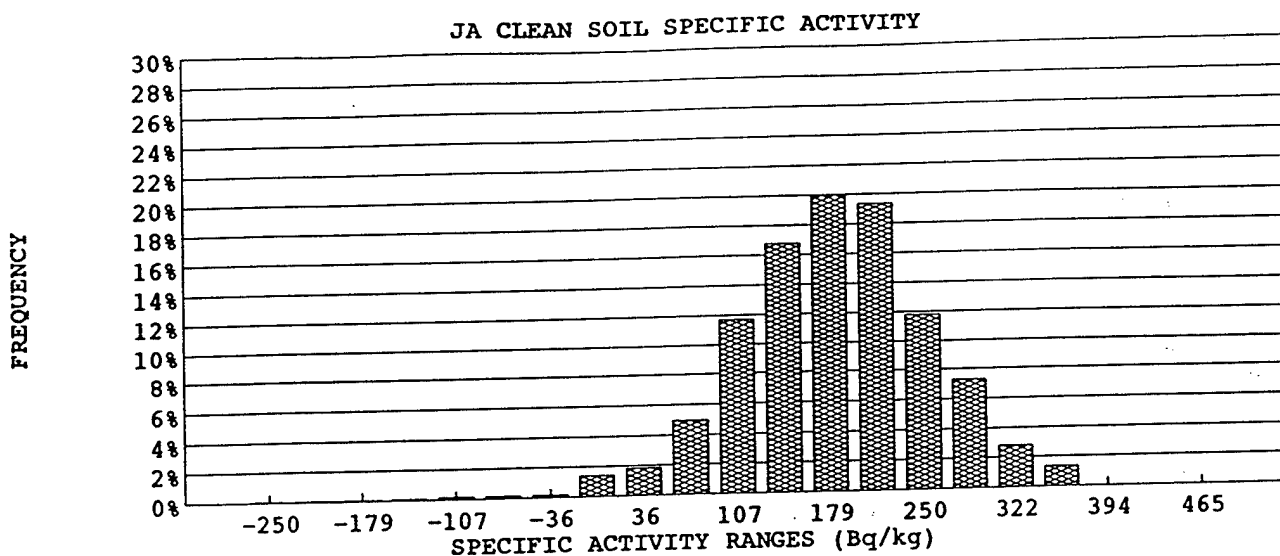
SORTER 1				04-Mar-94				
SORTER SOIL DENSITY		1.20 tons/m ³		BACKGROUND		0.67 ± 0.02 c/s		
SOIL		CONTAMINATED		CLEAN		TOTAL		
MASS TOTAL		0.8 tons		87.0 tons		87.8 tons		
MAXIMUM/SORT		58.1 kg		55.9 kg				
MINIMUM/SORT		0.7 kg		51.0 kg				
VOLUME IN-GROUND		0.6 yd ³		68.9 yd ³		69.6 yd ³		
WEIGHT RECOVERY (CLEAN/(HOT+CLEAN))		99.1%						
ACTIVITY		PARTICLE		DISPERSED + PARTICLE				
				HOT		CLEAN		
TOTAL		16,777 kBq		5,441 kBq		9,557 kBq		
MAXIMUM/SORT		487 kBq		288 kBq		18 kBq		
MINIMUM/SORT		3 kBq		0 Bq		-16 kBq		
SPECIFIC ACTIVITY				6,860 Bq/kg		110 Bq/kg		
SORTS				1,570		UNEXP PAUSE		
20-SEC PROCESS PERIODS						TIME TIME		
ALL 80 ELEMENTS SORT (MD>0&MND=0)				2		07:12 07:05		
NONE (AD=0 & MD=0 & MND>0)				1,149		07:28 07:26		
SOME (AD>0&0<MD<MNDmax&MND<MNDmax)				419		08:43		
UNEXPLAINED RECORDS				0		10:02		
0<AD<1kBq & MD>0				4		15:18		
AD=0 & MD>0				0				
AD<0 & MD >0				0				
2-SEC COUNT PERIODS				15,700				
2-SEC RECORDS WITH SORTS				935				
2-SEC RECORDS WITHOUT SORTS				14,765				
TOTAL PROCESS RECORDS (2-s SORTS and 20-s PERIODS)				2,505				
NONPROCESSING RECORDS (Test, calibration, etc)				2				
2-SEC SORT DETECTORS								
1 DET		680 72.7%	5 DET	1	0.1%			
2 DET		212 22.7%	6 DET	0	0.0%			
3 DET		37 4.0%	7 DET	0	0.0%			
4 DET		5 0.5%	8 DET	0	0.0%			
AVERAGE TIME BETWEEN 2-SEC SORTS				46.2 sec				
FREQUENCY DISTRIBUTIONS								
1-GATE SORTS		ACT_ND	NUM	SPEC_A	FREQ%	ACT_P	NUM	FREQ%
DET	SORTS	(Bq)	(#)	(Bq/kg)		(kBq)	(#)	
1	12	2.5%	-14000	1	-250 0.1%	4	59	6.3%
2	34	7.2%	-12000	2	-215 0.1%	8	375	40.1%
3	57	12.0%	-10000	1	-179 0.1%	12	184	19.7%
4	83	17.5%	-8000	1	-143 0.1%	16	86	9.2%
5	104	21.9%	-6000	1	-107 0.1%	20	47	5.0%
6	88	18.6%	-4000	1	-72 0.1%	24	46	4.9%
7	75	15.8%	-2000	12	-36 0.8%	28	21	2.2%
8	21	4.4%	0	56	0 3.6%	32	18	1.9%
TOTAL	474		2000	146	36 9.3%	36	11	1.2%
2-GATE SORTS			4000	218	72 13.9%	40	12	1.3%
DET	SORTS	FREQ%	6000	337	107 21.4%	44	13	1.4%
9	20	4.3%	8000	347	143 22.1%	48	9	1.0%
10	42	9.1%	10000	215	179 13.7%	52	3	0.3%
11	74	16.1%	12000	136	215 8.7%	56	4	0.4%
12	94	20.4%	14000	62	250 3.9%	60	3	0.3%
13	101	21.9%	16000	29	286 1.8%	64	3	0.3%
14	77	16.7%	18000	6	322 0.4%	68	2	0.2%
15	53	11.5%	20000	1	358 0.1%	72	3	0.3%
TOTAL	461		22000	0	394 0.0%	76	3	0.3%
			24000	0	429 0.0%	80	1	0.1%
			26000	0	465 0.0%	84	2	0.2%
			>28000	0	0 0.0%	>84	30	3.2%
			TOTAL	1,572		TOTAL	935	
EVENT TYPES		HPE	943	MPE	24	DISE	166	



SORTER 2				04-Mar-94					
SORTER SOIL DENSITY		1.20 tons/m ³		BACKGROUND		0.78 ± 0.03 c/s			
SOIL		CONTAMINATED		CLEAN		TOTAL			
MASS TOTAL		1.9 tons		91.6 tons		93.5 tons			
MAXIMUM/SORT		55.9 kg		55.9 kg					
MINIMUM/SORT		0.7 kg		46.8 kg					
VOLUME IN-GROUND		1.5 yd ³		72.6 yd ³		74.1 yd ³			
WEIGHT RECOVERY (CLEAN/(HOT+CLEAN))		98.0%							
ACTIVITY		PARTICLE		DISPERSED + PARTICLE					
TOTAL		22,931 kBq		HOT		CLEAN			
MAXIMUM/SORT		558 kBq		7,941 kBq		15,335 kBq			
MINIMUM/SORT		3 kBq		368 kBq		20 kBq			
SPECIFIC ACTIVITY				0 Bq		-12 kBq			
				4,186 Bq/kg		167 Bq/kg			
SORTS									
20-SEC PROCESS PERIODS				1,673		UNEXP PAUSE			
ALL 80 ELEMENTS SORT (MD>0&MND=0)				16		TIME TIME			
NONE (AD=0 & MD=0 & MND>0)				1,089		08:02 None			
SOME (AD>0&0<MD<MNDmax&MND<MNDmax)				568		11:02			
UNEXPLAINED RECORDS				0		12:05			
0<AD<1kBq & MD>0				3					
AD=0 & MD>0				0					
AD<0 & MD >0				0					
2-SEC COUNT PERIODS				16,730					
2-SEC RECORDS WITH SORTS				1,370					
2-SEC RECORDS WITHOUT SORTS				15,360					
TOTAL PROCESS RECORDS (2-s SORTS and 20-s PERIODS)				3,043					
NONPROCESSING RECORDS (Test, calibration, etc)				4					
2-SEC SORT DETECTORS									
1 DET		1,014	74.0%	5 DET	2	0.1%			
2 DET		294	21.5%	6 DET	0	0.0%			
3 DET		52	3.8%	7 DET	0	0.0%			
4 DET		8	0.6%	8 DET	0	0.0%			
AVERAGE TIME BETWEEN 2-SEC SORTS				33.0 sec					
FREQUENCY DISTRIBUTIONS									
1-GATE SORTS		ACT_ND	NUM	SPEC_A	FREQ%	ACT_P	NUM	FREQ%	
DET	SORTS	FREQ%	(Bq)	(#)	(Bq/kg)	(kBq)	(#)		
1	32	4.8%	-14000	1	-250	0.1%	4	118	8.6%
2	112	16.7%	-12000	1	-215	0.1%	8	641	46.8%
3	124	18.5%	-10000	1	-179	0.1%	12	234	17.1%
4	127	19.0%	-8000	2	-143	0.1%	16	108	7.9%
5	119	17.8%	-6000	3	-107	0.2%	20	58	4.2%
6	90	13.5%	-4000	3	-72	0.2%	24	42	3.1%
7	51	7.6%	-2000	3	-36	0.2%	28	27	2.0%
8	14	2.1%	0	24	0	1.4%	32	21	1.5%
TOTAL	669		2000	31	36	1.8%	36	17	1.2%
			4000	83	72	4.9%	40	7	0.5%
			6000	196	107	11.7%	44	14	1.0%
2-GATE SORTS			8000	281	143	16.8%	48	11	0.8%
DET	SORTS	FREQ%	10000	335	179	20.0%	52	6	0.4%
9	87	12.4%	12000	324	215	19.3%	56	6	0.4%
10	126	18.0%	14000	197	250	11.7%	60	6	0.4%
11	142	20.3%	16000	122	286	7.3%	64	3	0.2%
12	139	19.8%	18000	47	322	2.8%	68	1	0.1%
13	110	15.7%	20000	23	358	1.4%	72	5	0.4%
14	65	9.3%	22000	0	394	0.0%	76	5	0.4%
15	32	4.6%	24000	0	429	0.0%	80	1	0.1%
TOTAL	701		26000	0	465	0.0%	84	3	0.2%
			>28000	0	0	0.0%	>84	36	2.6%
			TOTAL	1,677			TOTAL	1,370	
EVENT TYPES		HPE	1,420	MPE	32	DISE	1260		

SORTER 2

04-Mar-94



WORK HISTORY - JA SOIL CLEANUP PLANT

05-Mar-94

WORK DAY START	05:00 AM	WORK DAY END	15:30 PM
LUNCH START	11:00 AM	TIME LOST DURING LUNCH	0.5 HR

	SORTER 1	SORTER 2	SORTER 3	SORTER 4	TOTAL (sorter hours)
WORK HOURS	10.0 hr	10.0 hr	10.0 hr	10.0 hr	40.0 hr
SORTER AVAILABLE HOURS	3.5 hr	3.5 hr	0.0 hr	0.0 hr	7.0 hr
SORTER START-UP	05:45	05:45	NA	NA	
START SOIL PROCESSING	06:14	06:15	NA	NA	
TIME REQUIRED TO START-UP	0.5 hr	0.5 hr	0.0 hr	0.0 hr	1.0 hr
SORTER SHUT-DOWN	09:15	09:15	NA	NA	
END SOIL PROCESSING	08:50	08:51	NA	NA	
TIME REQUIRED TO SHUT DOWN	0.4 hr	0.4 hr	0.0 hr	0.0 hr	0.8 hr
ACTUAL PROCESS HOURS	2.6 hr	2.6 hr	0.0 hr	0.0 hr	5.2 hr
DOWN-TIME	0.9 hr	0.9 hr	0.0 hr	0.0 hr	1.8 hr
SYSTEM PAUSE	0.0 hr	0.0 hr	0.0 hr	0.0 hr	0.0 hr
SORTER NONAVAILABLE TIME	6.5 hr	6.5 hr	10.0 hr	10.0 hr	33.0 hr
AUTHORIZED DELAY TIME	0.0 hr	0.0 hr	10.0 hr	10.0 hr	20.0 hr
PLANT PERFORMANCE					74.4%
PRODUCTIVITY					13.0%

PRODUCTIVITY

Date	05-Mar-94	Excused Delays for day (sorter-hrs)	20 hr
Contract day (from 6 Sep)	144	Excused delays for contract (sorter-hrs)	2,126 hr
Current Contract week	24	Excused delay days (plant-days)	53 days
		Excused delay months (plant-month)	2.04 months
Soil production for Day	52 MT		
Cumulative Soil Production for Week	1,003 MT	Percent of contract completed	35.9%
Total Soil production for contract		Tons Ahead or Behind Schedule	1,769 MT
Since 6 Sep 93	34,336 MT	Days ahead or behind schedule	6 days
Since 6 Aug 93	35,927 MT		
Total Soil production for project	62,214 MT		

MT = metric tons

SORTER 1

05-Mar-94

SORTER SOIL DENSITY		1.20 tons/m ³	BACKGROUND		0.64 ± 0.02 c/s
SOIL		CONTAMINATED	CLEAN	TOTAL	
MASS TOTAL		0.1 tons	26.1 tons	26.2 tons	
MAXIMUM/SORT		4.2 kg	55.9 kg		
MINIMUM/SORT		0.7 kg	51.7 kg		
VOLUME IN-GROUND		0.1 yd ³	20.7 yd ³	20.8 yd ³	
WEIGHT RECOVERY (CLEAN/(HOT+CLEAN))		99.4%			

ACTIVITY

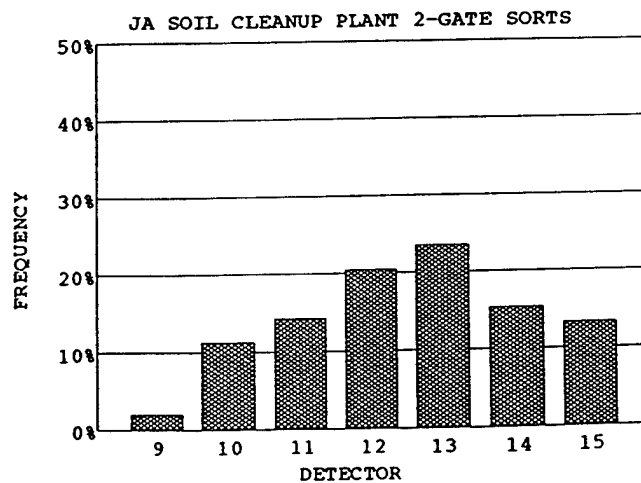
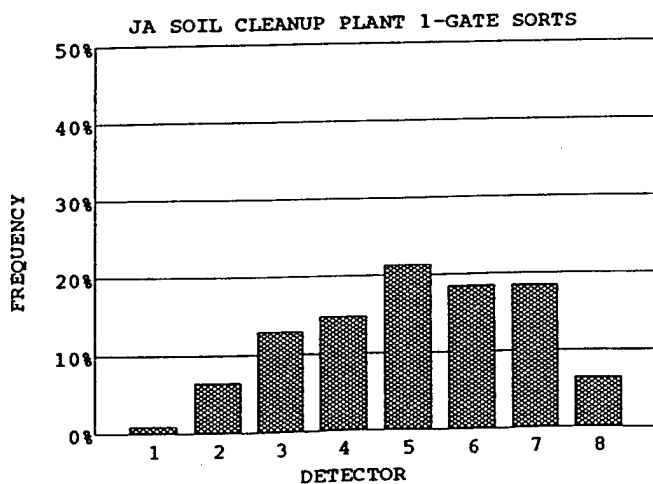
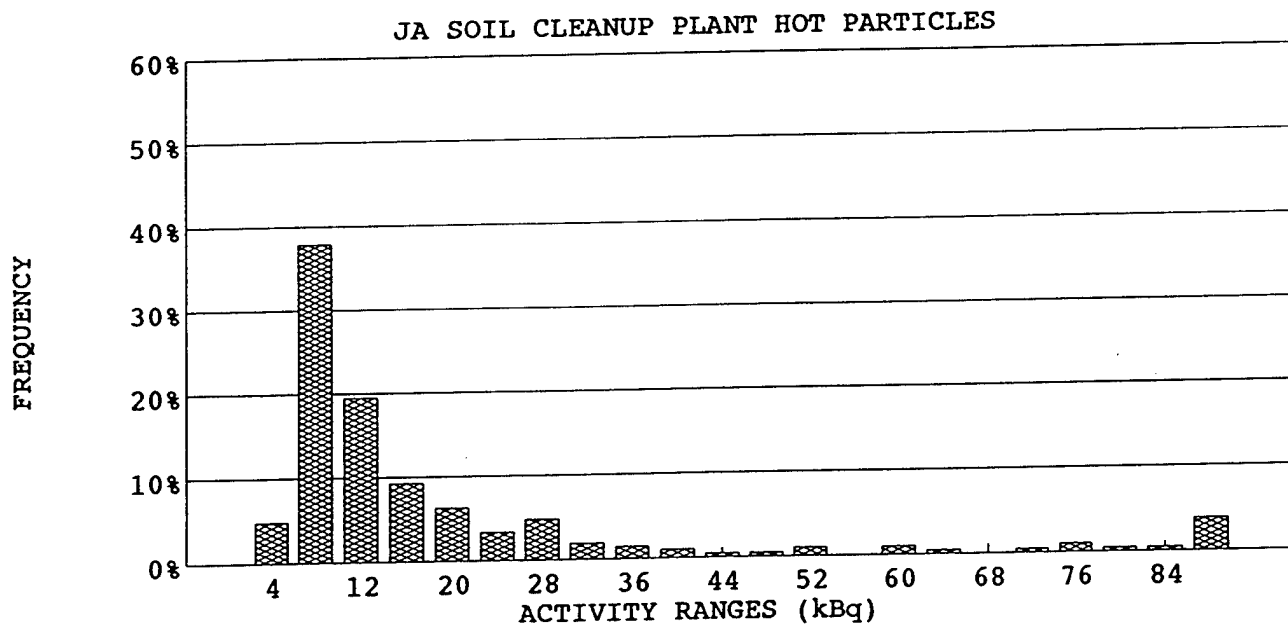
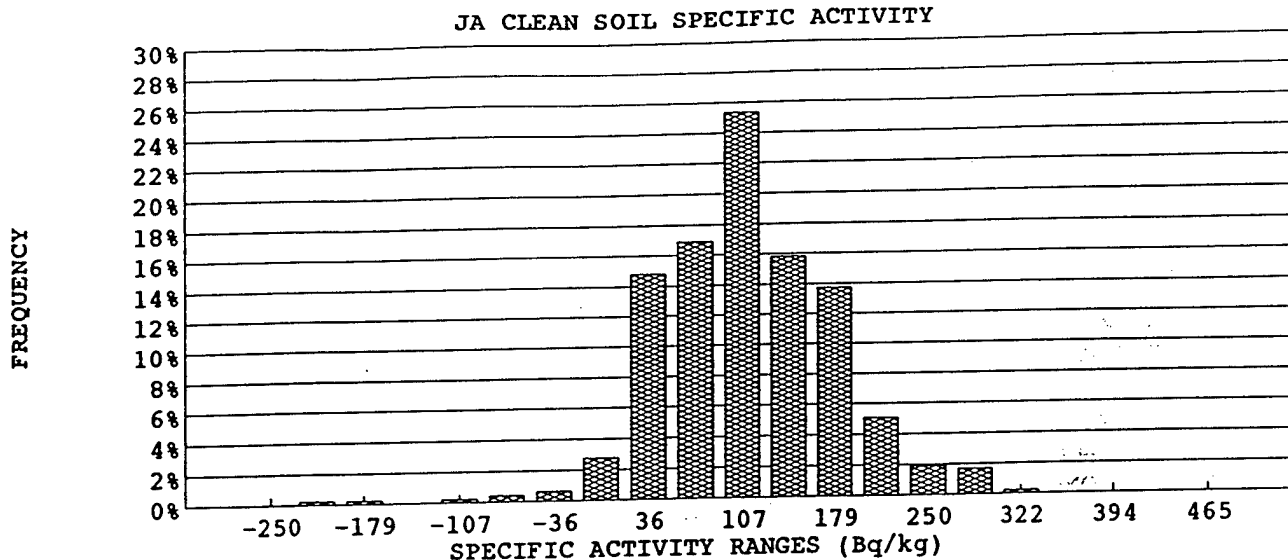
		PARTICLE	DISPERSED + PARTICLE	
			HOT	CLEAN
TOTAL		6,077 kBq	1,841 kBq	2,505 kBq
MAXIMUM/SORT		1,341 kBq	768 kBq	17 kBq
MINIMUM/SORT		3 kBq	0 Bq	-7 kBq
SPECIFIC ACTIVITY			12,641 Bq/kg	96 Bq/kg

SORTS

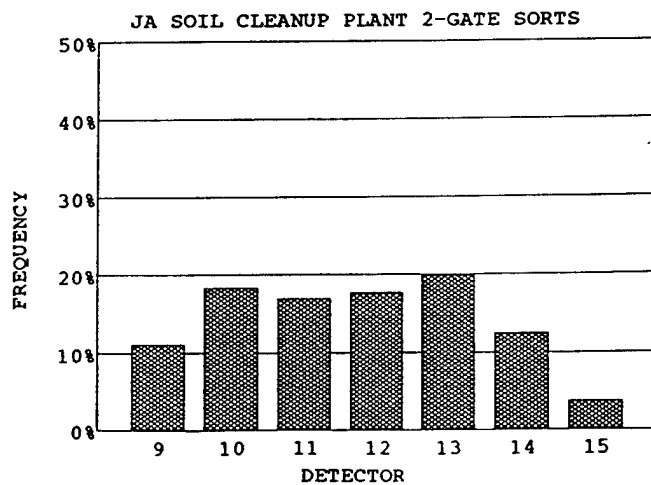
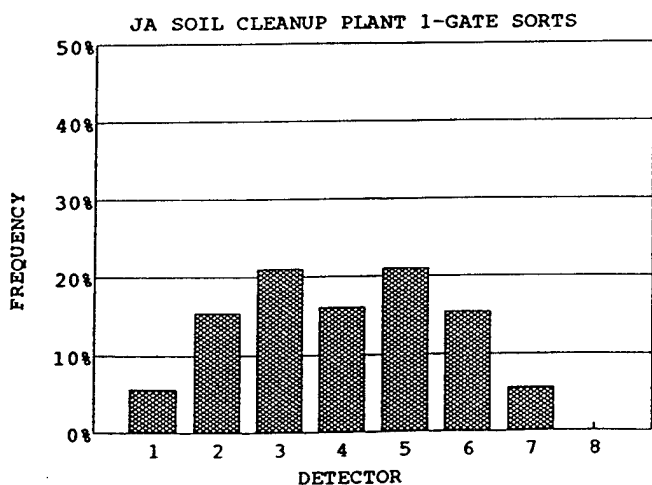
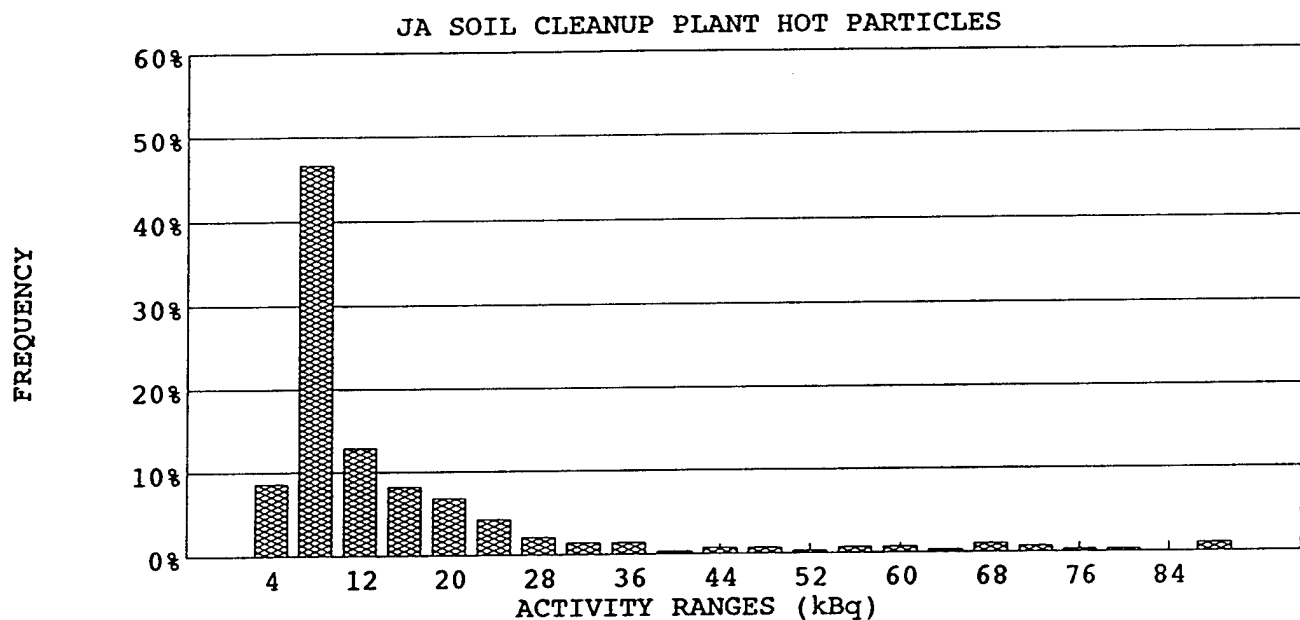
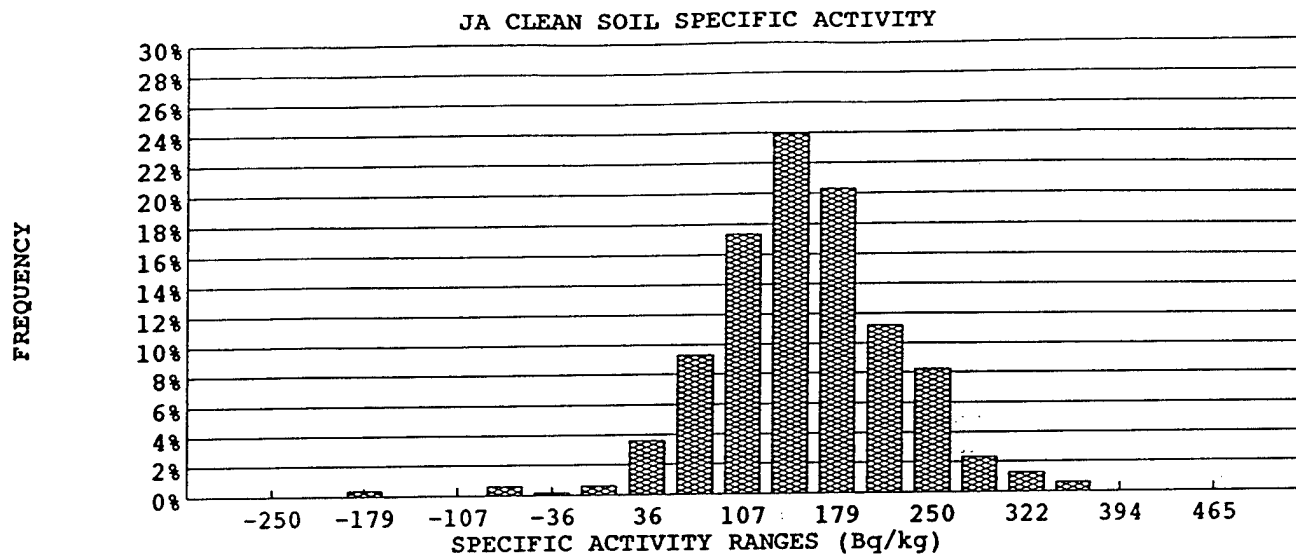
20-SEC PROCESS PERIODS			469	UNEXP	PAUSE
ALL 80 ELEMENTS SORT (MD>0&MND=0)		0		TIME	TIME
NONE (AD=0 & MD=0 & MND>0)		374		None	None
SOME (AD>0&0<MD<MNDmax&MND<MNDmax)		95			
UNEXPLAINED RECORDS		0			
0<AD<1kBq & MD>0		0			
AD=0 & MD>0		0			
AD<0 & MD >0		0			
2-SEC COUNT PERIODS			4,690		
2-SEC RECORDS WITH SORTS		206			
2-SEC RECORDS WITHOUT SORTS		4,484			
TOTAL PROCESS RECORDS (2-s SORTS and 20-s PERIODS)			675		
NONPROCESSING RECORDS (Test, calibration, etc)			4		
2-SEC SORT DETECTORS					
1 DET	152 73.8%	5 DET	1	0.5%	
2 DET	45 21.8%	6 DET	0	0.0%	
3 DET	7 3.4%	7 DET	0	0.0%	
4 DET	1 0.5%	8 DET	0	0.0%	
AVERAGE TIME BETWEEN 2-SEC SORTS		61.7 sec			

FREQUENCY DISTRIBUTIONS

1-GATESORTS			ACT_ND	NUM	SPEC_A	FREQ%	ACT_P	NUM	FREQ%
DET	SORTS	FREQ%	(Bq)	(#)	(Bq/kg)		(kBq)	(#)	
1	1	0.9%	-14000	0	-250	0.0%	4	10	4.9%
2	7	6.5%	-12000	1	-215	0.2%	8	78	37.9%
3	14	13.0%	-10000	1	-179	0.2%	12	40	19.4%
4	16	14.8%	-8000	0	-143	0.0%	16	19	9.2%
5	23	21.3%	-6000	1	-107	0.2%	20	13	6.3%
6	20	18.5%	-4000	2	-72	0.4%	24	7	3.4%
7	20	18.5%	-2000	3	-36	0.6%	28	10	4.9%
8	7	6.5%	0	13	0	2.7%	32	4	1.9%
TOTAL		108	2000	70	36	14.8%	36	3	1.5%
			4000	80	72	16.9%	40	2	1.0%
			6000	120	107	25.4%	44	1	0.5%
2-GATESORTS			8000	75	143	15.9%	48	1	0.5%
9	2	2.0%	10000	65	179	13.7%	52	2	1.0%
10	11	11.2%	12000	24	215	5.1%	56	0	0.0%
11	14	14.3%	14000	9	250	1.9%	60	2	1.0%
12	20	20.4%	16000	8	286	1.7%	64	1	0.5%
13	23	23.5%	18000	1	322	0.2%	68	0	0.0%
14	15	15.3%	20000	0	358	0.0%	72	1	0.5%
15	13	13.3%	22000	0	394	0.0%	76	2	1.0%
TOTAL		98	24000	0	429	0.0%	80	1	0.5%
			26000	0	465	0.0%	84	1	0.5%
			>28000	0	0	0.0%	>84	8	3.9%
			TOTAL	473			TOTAL	206	
EVENT TYPES		HPE	205	MPE	3	DISE	0		



SORTER 2				05-Mar-94					
SORTER SOIL DENSITY			1.20 tons/m ³	BACKGROUND		0.75 ±	0.02 c/s		
SOIL			CONTAMINATED	CLEAN	TOTAL				
MASS TOTAL			0.2 tons	26.0 tons	26.2 tons				
MAXIMUM/SORT			4.2 kg	55.9 kg					
MINIMUM/SORT			0.7 kg	51.7 kg					
VOLUME IN-GROUND			0.2 yd ³	20.6 yd ³	20.7 yd ³				
WEIGHT RECOVERY (CLEAN/(HOT+CLEAN))			99.2%						
ACTIVITY			DISPERSED + PARTICLE						
			PARTICLE	HOT	CLEAN				
TOTAL			3,969 kBq	1,272 kBq	3,616 kBq				
MAXIMUM/SORT			164 kBq	99 kBq	19 kBq				
MINIMUM/SORT			3 kBq	0 Bq	-5 kBq				
SPECIFIC ACTIVITY				6,116 Bq/kg	139 Bq/kg				
SORTS									
20-SEC PROCESS PERIODS				468	UNEXP PAUSE				
ALL 80 ELEMENTS SORT (MD>0&MND=0)				0	TIME TIME				
NONE (AD=0 & MD=0 & MND>0)				336	07:03 None				
SOME (AD>0&0<MD<MNDmax&MND<MNDmax)				132					
UNEXPLAINED RECORDS				0					
0<AD<1kBq & MD>0				1					
AD=0 & MD>0				0					
AD<0 & MD >0				0					
2-SEC COUNT PERIODS				4,680					
2-SEC RECORDS WITH SORTS				279					
2-SEC RECORDS WITHOUT SORTS				4,401					
TOTAL PROCESS RECORDS (2-s SORTS and 20-s PERIODS)				747					
NONPROCESSING RECORDS (Test, calibration, etc)				5					
2-SEC SORT DETECTORS									
1 DET		204	73.1%	5 DET	0	0.0%			
2 DET		63	22.6%	6 DET	0	0.0%			
3 DET		10	3.6%	7 DET	0	0.0%			
4 DET		2	0.7%	8 DET	0	0.0%			
AVERAGE TIME BETWEEN 2-SEC SORTS				45.9 sec					
FREQUENCY DISTRIBUTIONS									
1-GATE SORTS			ACT_ND	NUM	SPEC_A	FREQ%	ACT_P	NUM	FREQ%
			(Bq)	(#)	(Bq/kg)		(kBq)	(#)	
DET	SORTS	FREQ%							
1	8	5.6%	-14000	0	-250	0.0%	4	24	8.6%
2	22	15.4%	-12000	0	-215	0.0%	8	130	46.6%
3	30	21.0%	-10000	2	-179	0.4%	12	36	12.9%
4	23	16.1%	-8000	0	-143	0.0%	16	23	8.2%
5	30	21.0%	-6000	0	-107	0.0%	20	19	6.8%
6	22	15.4%	-4000	3	-72	0.6%	24	12	4.3%
7	8	5.6%	-2000	1	-36	0.2%	28	6	2.2%
8	0	0.0%	0	3	0	0.6%	32	4	1.4%
TOTAL	143		2000	17	36	3.6%	36	4	1.4%
			4000	44	72	9.3%	40	1	0.4%
2-GATE SORTS			6000	82	107	17.3%	44	2	0.7%
DET	SORTS	FREQ%	8000	113	143	23.9%	48	2	0.7%
9	15	11.0%	10000	96	179	20.3%	52	1	0.4%
10	25	18.4%	12000	53	215	11.2%	56	2	0.7%
11	23	16.9%	14000	39	250	8.2%	60	2	0.7%
12	24	17.6%	16000	11	286	2.3%	64	1	0.4%
13	27	19.9%	18000	6	322	1.3%	68	3	1.1%
14	17	12.5%	20000	3	358	0.6%	72	2	0.7%
15	5	3.7%	22000	0	394	0.0%	76	1	0.4%
TOTAL	136		24000	0	429	0.0%	80	1	0.4%
			26000	0	465	0.0%	84	0	0.0%
			>28000	0	0	0.0%	>84	3	1.1%
			TOTAL	473			TOTAL	279	
EVENT TYPES		HPE	287	MPE	5	DISE	5		



WORK HISTORY - JA SOIL CLEANUP PLANT

07-Mar-94

WORK DAY START	06:00	AM	WORK DAY END	16:30	PM
LUNCH START	11:00	AM	TIME LOST DURING LUNCH	0.5	HR

	SORTER 1	SORTER 2	SORTER 3	SORTER 4	TOTAL (sorter hours)
WORK HOURS	10.0 hr	10.0 hr	10.0 hr	10.0 hr	40.0 hr
SORTER AVAILABLE HOURS	0.0 hr	0.0 hr	0.0 hr	0.0 hr	0.0 hr
SORTER START-UP	NA	NA	NA	NA	
START SOIL PROCESSING	NA	NA	NA	NA	
TIME REQUIRED TO START-UP	0.0 hr	0.0 hr	0.0 hr	0.0 hr	0.0 hr
SORTER SHUT-DOWN	NA	NA	NA	NA	
END SOIL PROCESSING	NA	NA	NA	NA	
TIME REQUIRED TO SHUT DOWN	0.0 hr	0.0 hr	0.0 hr	0.0 hr	0.0 hr
ACTUAL PROCESS HOURS	0.0 hr	0.0 hr	0.0 hr	0.0 hr	0.0 hr
DOWN-TIME	0.0 hr	0.0 hr	0.0 hr	0.0 hr	0.0 hr
SYSTEM PAUSE	0.0 hr	0.0 hr	0.0 hr	0.0 hr	0.0 hr
SORTER NONAVAILABLE TIME	10.0 hr	10.0 hr	10.0 hr	10.0 hr	40.0 hr
AUTHORIZED DELAY TIME	10.0 hr	10.0 hr	10.0 hr	10.0 hr	40.0 hr
PLANT PERFORMANCE					NA
PRODUCTIVITY					0.0%

PRODUCTIVITY

Date	07-Mar-94	Excused Delays for day (sorter-hrs)	40 hr
Contract day (from 6 Sep)	145	Excused delays for contract (sorter-hrs)	2,166 hr
Current Contract week	25	Excused delay days (plant-days)	54 days
		Excused delay months (plant-month)	2.08 months
Soil production for Day	0 MT		
Cumulative Soil Production for Week	0 MT	Percent of contract completed	35.9%
Total Soil production for contract		Tons Ahead or Behind Schedule	1,769 MT
Since 6 Sep 93	34,336 MT	Days ahead or behind schedule	6 days
Since 6 Aug 93	35,927 MT		
Total Soil production for project	62,214 MT		

MT = metric tons

WORK HISTORY - JA SOIL CLEANUP PLANT

08-Mar-94

WORK DAY START	06:00	AM	WORK DAY END	16:30	PM
LUNCH START	11:00	AM	TIME LOST DURING LUNCH	0.5	HR

	SORTER 1	SORTER 2	SORTER 3	SORTER 4	TOTAL (sorter hours)
WORK HOURS	10.0 hr	10.0 hr	10.0 hr	10.0 hr	40.0 hr
SORTER AVAILABLE HOURS	0.0 hr	0.0 hr	0.0 hr	0.0 hr	0.0 hr
SORTER START-UP	NA	NA	NA	NA	
START SOIL PROCESSING	NA	NA	NA	NA	
TIME REQUIRED TO START-UP	0.0 hr	0.0 hr	0.0 hr	0.0 hr	0.0 hr
SORTER SHUT-DOWN	NA	NA	NA	NA	
END SOIL PROCESSING	NA	NA	NA	NA	
TIME REQUIRED TO SHUT DOWN	0.0 hr	0.0 hr	0.0 hr	0.0 hr	0.0 hr
ACTUAL PROCESS HOURS	0.0 hr	0.0 hr	0.0 hr	0.0 hr	0.0 hr
DOWN-TIME	0.0 hr	0.0 hr	0.0 hr	0.0 hr	0.0 hr
SYSTEM PAUSE	0.0 hr	0.0 hr	0.0 hr	0.0 hr	0.0 hr
SORTER NONAVAILABLE TIME	10.0 hr	10.0 hr	10.0 hr	10.0 hr	40.0 hr
AUTHORIZED DELAY TIME	10.0 hr	10.0 hr	10.0 hr	10.0 hr	40.0 hr
PLANT PERFORMANCE					NA
PRODUCTIVITY					0.0%

PRODUCTIVITY

Date	08-Mar-94	Excused Delays for day (sorter-hrs)	40 hr
Contract day (from 6 Sep)	146	Excused delays for contract (sorter-hrs)	2,206 hr
Current Contract week	25	Excused delay days (plant-days)	55 days
		Excused delay months (plant-month)	2.12 months
Soil production for Day	0 MT	Percent of contract completed	35.9%
Cumulative Soil Production for Week	0 MT	Tons Ahead or Behind Schedule	1,769 MT
Total Soil production for contract		Days ahead or behind schedule	6 days
Since 6 Sep 93	34,336 MT		
Since 6 Aug 93	35,927 MT		
Total Soil production for project	62,214 MT		

MT = metric tons

WORK HISTORY - JA SOIL CLEANUP PLANT

09-Mar-94

WORK DAY START	06:00	AM	WORK DAY END	16:30	PM
LUNCH START	11:00	AM	TIME LOST DURING LUNCH	0.5	HR

	SORTER 1	SORTER 2	SORTER 3	SORTER 4	TOTAL (sorter hours)
WORK HOURS	10.0 hr	10.0 hr	10.0 hr	10.0 hr	40.0 hr
SORTER AVAILABLE HOURS	0.0 hr	0.0 hr	0.0 hr	0.0 hr	0.0 hr
SORTER START-UP	NA	NA	NA	NA	
START SOIL PROCESSING	NA	NA	NA	NA	
TIME REQUIRED TO START-UP	0.0 hr	0.0 hr	0.0 hr	0.0 hr	0.0 hr
SORTER SHUT-DOWN	NA	NA	NA	NA	
END SOIL PROCESSING	NA	NA	NA	NA	
TIME REQUIRED TO SHUT DOWN	0.0 hr	0.0 hr	0.0 hr	0.0 hr	0.0 hr
ACTUAL PROCESS HOURS	0.0 hr	0.0 hr	0.0 hr	0.0 hr	0.0 hr
DOWN-TIME	0.0 hr	0.0 hr	0.0 hr	0.0 hr	0.0 hr
SYSTEM PAUSE	0.0 hr	0.0 hr	0.0 hr	0.0 hr	0.0 hr
SORTER NONAVAILABLE TIME	10.0 hr	10.0 hr	10.0 hr	10.0 hr	40.0 hr
AUTHORIZED DELAY TIME	10.0 hr	10.0 hr	10.0 hr	10.0 hr	40.0 hr
PLANT PERFORMANCE					NA
PRODUCTIVITY					0.0%

PRODUCTIVITY

Date	09-Mar-94	Excused Delays for day (sorter-hrs)	40 hr
Contract day (from 6 Sep)	147	Excused delays for contract (sorter-hrs)	2,246 hr
Current Contract week	25	Excused delay days (plant-days)	56 days
		Excused delay months (plant-month)	2.16 months
Soil production for Day	0 MT		
Cumulative Soil Production for Week	0 MT	Percent of contract completed	35.9%
Total Soil production for contract		Tons Ahead or Behind Schedule	1,769 MT
Since 6 Sep 93	34,336 MT	Days ahead or behind schedule	6 days
Since 6 Aug 93	35,927 MT		
Total Soil production for project	62,214 MT		

MT = metric tons

WORK HISTORY - JA SOIL CLEANUP PLANT

10-Mar-94

WORK DAY START	06:00	AM	WORK DAY END	16:30	PM
LUNCH START	11:00	AM	TIME LOST DURING LUNCH	0.5	HR

	SORTER 1	SORTER 2	SORTER 3	SORTER 4	TOTAL (sorter hours)
WORK HOURS	10.0 hr	10.0 hr	10.0 hr	10.0 hr	40.0 hr
SORTER AVAILABLE HOURS	0.0 hr	0.0 hr	0.0 hr	0.0 hr	0.0 hr
SORTER START-UP	NA	NA	NA	NA	
START SOIL PROCESSING	NA	NA	NA	NA	
TIME REQUIRED TO START-UP	0.0 hr	0.0 hr	0.0 hr	0.0 hr	0.0 hr
SORTER SHUT-DOWN	NA	NA	NA	NA	
END SOIL PROCESSING	NA	NA	NA	NA	
TIME REQUIRED TO SHUT DOWN	0.0 hr	0.0 hr	0.0 hr	0.0 hr	0.0 hr
ACTUAL PROCESS HOURS	0.0 hr	0.0 hr	0.0 hr	0.0 hr	0.0 hr
DOWN-TIME	0.0 hr	0.0 hr	0.0 hr	0.0 hr	0.0 hr
SYSTEM PAUSE	0.0 hr	0.0 hr	0.0 hr	0.0 hr	0.0 hr
SORTER NONAVAILABLE TIME	10.0 hr	10.0 hr	10.0 hr	10.0 hr	40.0 hr
AUTHORIZED DELAY TIME	10.0 hr	10.0 hr	10.0 hr	10.0 hr	40.0 hr
PLANT PERFORMANCE					NA
PRODUCTIVITY					0.0%

PRODUCTIVITY

Date	10-Mar-94	Excused Delays for day (sorter-hrs)	40 hr
Contract day (from 6 Sep)	148	Excused delays for contract (sorter-hrs)	2,286 hr
Current Contract week	25	Excused delay days (plant-days)	57 days
		Excused delay months (plant-month)	2.20 months
Soil production for Day	0 MT		
Cumulative Soil Production for Week	0 MT	Percent of contract completed	35.9%
Total Soil production for contract		Tons Ahead or Behind Schedule	1,769 MT
Since 6 Sep 93	34,336 MT	Days ahead or behind schedule	6 days
Since 6 Aug 93	35,927 MT		
Total Soil production for project	62,214 MT		

MT = metric tons

WORK HISTORY - JA SOIL CLEANUP PLANT

11-Mar-94

WORK DAY START	06:00 AM	WORK DAY END	16:30 PM
LUNCH START	11:00 AM	TIME LOST DURING LUNCH	0.0 HR

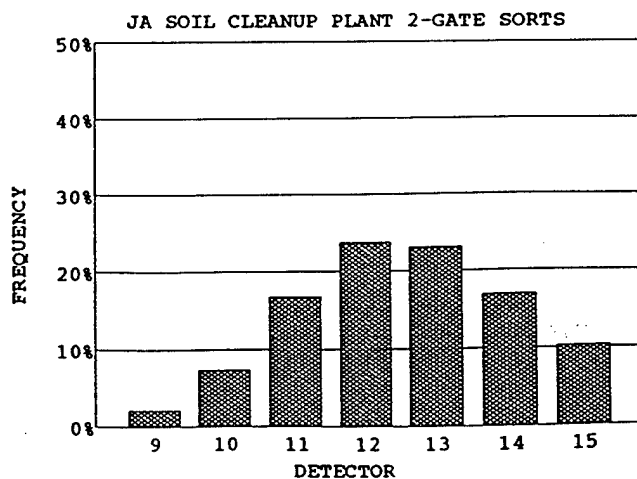
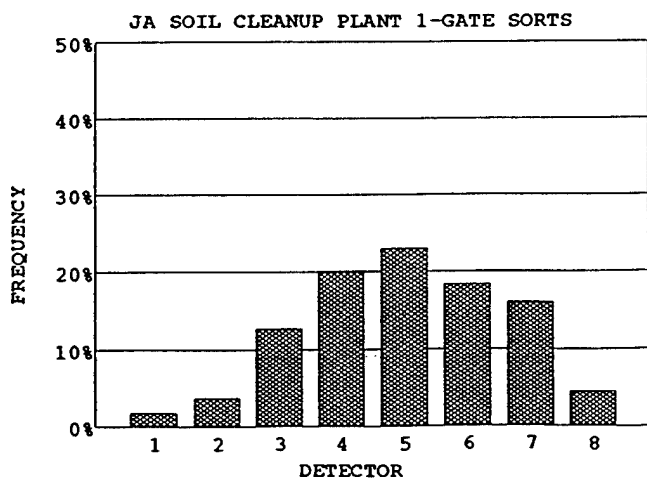
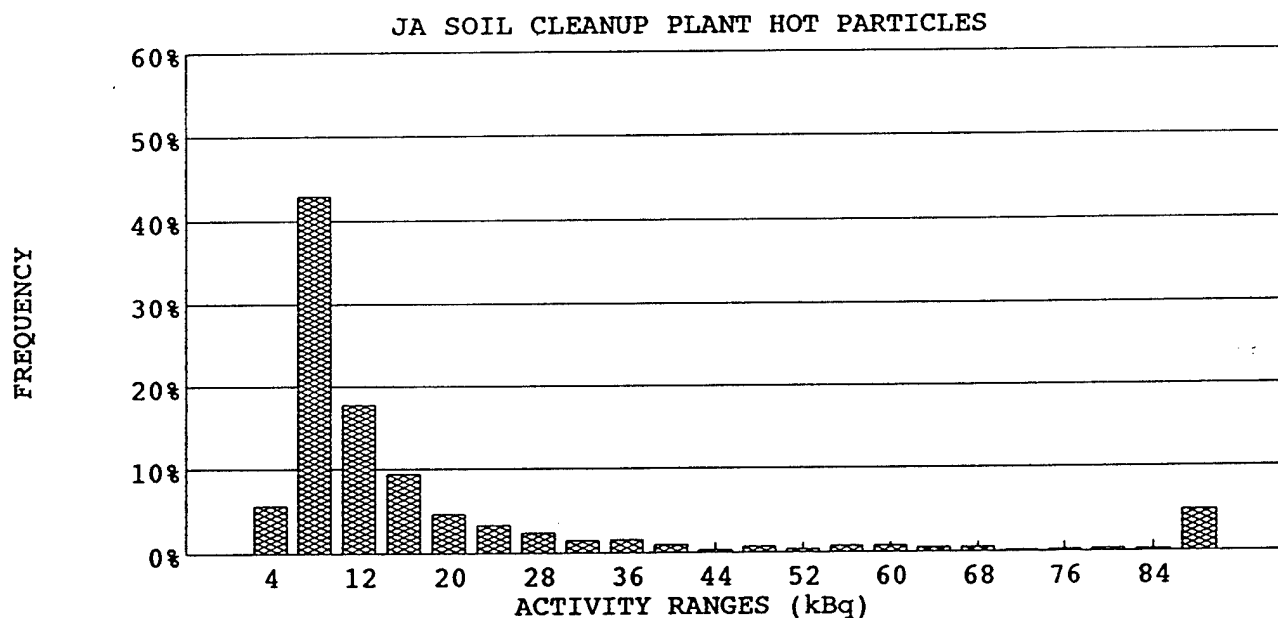
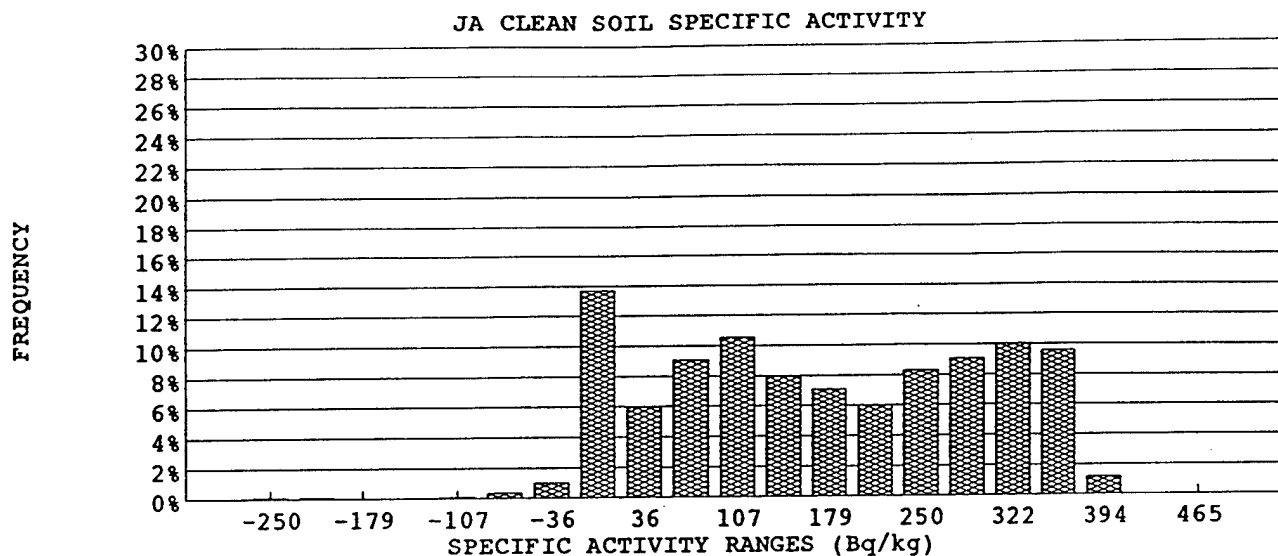
	SORTER 1	SORTER 2	SORTER 3	SORTER 4	TOTAL (sorter hours)
WORK HOURS	10.5 hr	10.5 hr	10.5 hr	10.5 hr	42.0 hr
SORTER AVAILABLE HOURS	7.5 hr	7.5 hr	0.0 hr	0.0 hr	15.0 hr
SORTER START-UP	08:30	08:30	NA	NA	
START SOIL PROCESSING	09:10	09:10	NA	NA	
TIME REQUIRED TO START-UP	0.7 hr	0.7 hr	0.0 hr	0.0 hr	1.3 hr
SORTER SHUT-DOWN	16:00	16:00	NA	NA	
END SOIL PROCESSING	15:43	15:42	NA	NA	
TIME REQUIRED TO SHUT DOWN	0.3 hr	0.3 hr	0.0 hr	0.0 hr	0.6 hr
ACTUAL PROCESS HOURS	6.6 hr	6.5 hr	0.0 hr	0.0 hr	13.0 hr
DOWN-TIME	0.9 hr	1.0 hr	0.0 hr	0.0 hr	2.0 hr
SYSTEM PAUSE	0.0 hr	0.1 hr	0.0 hr	0.0 hr	0.1 hr
SORTER NONAVAILABLE TIME	3.0 hr	3.0 hr	10.0 hr	10.0 hr	26.0 hr
AUTHORIZED DELAY TIME	0.0 hr	0.0 hr	10.0 hr	10.0 hr	20.0 hr
PLANT PERFORMANCE					86.9%
PRODUCTIVITY					31.0%

PRODUCTIVITY

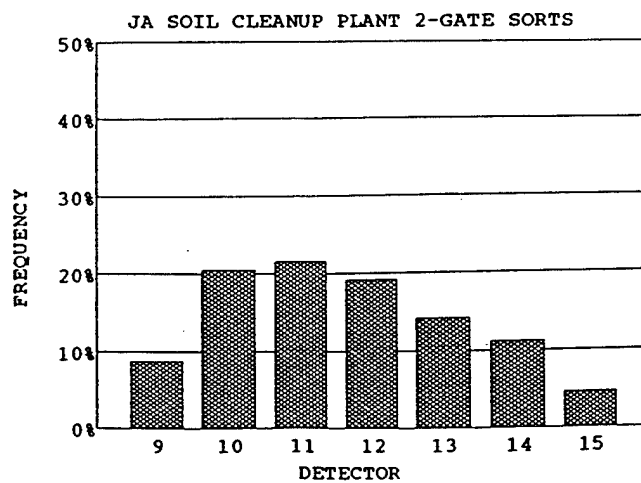
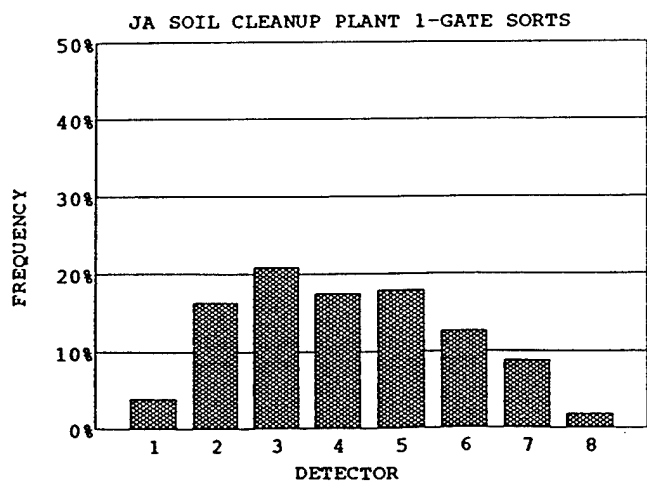
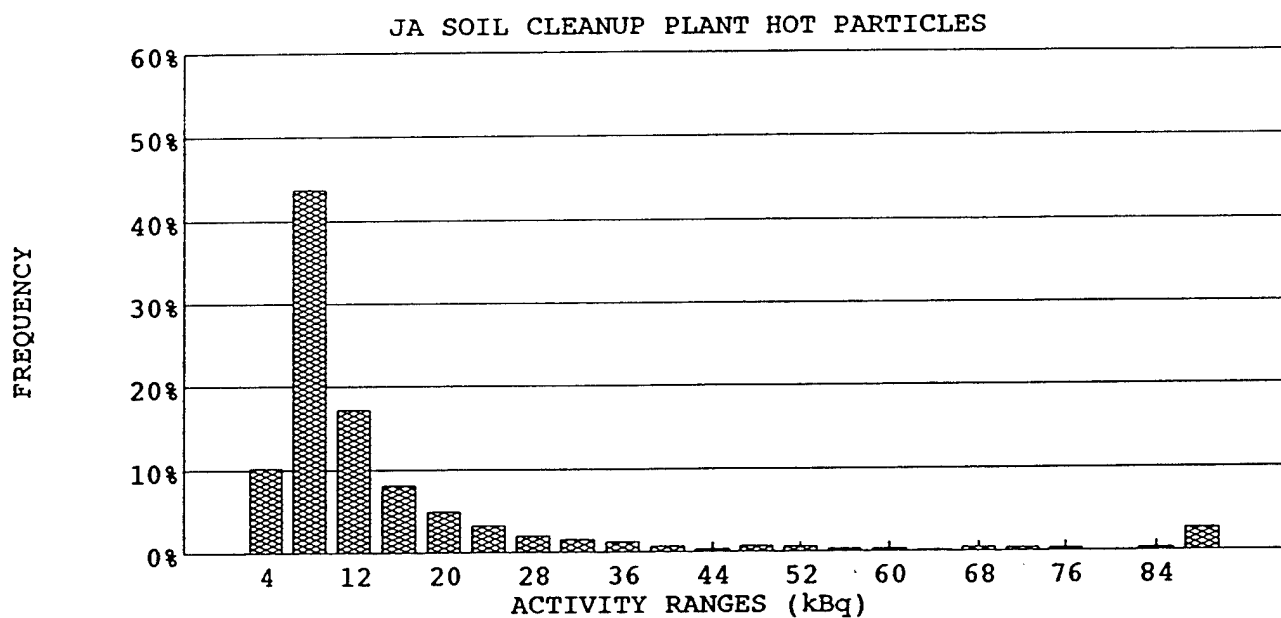
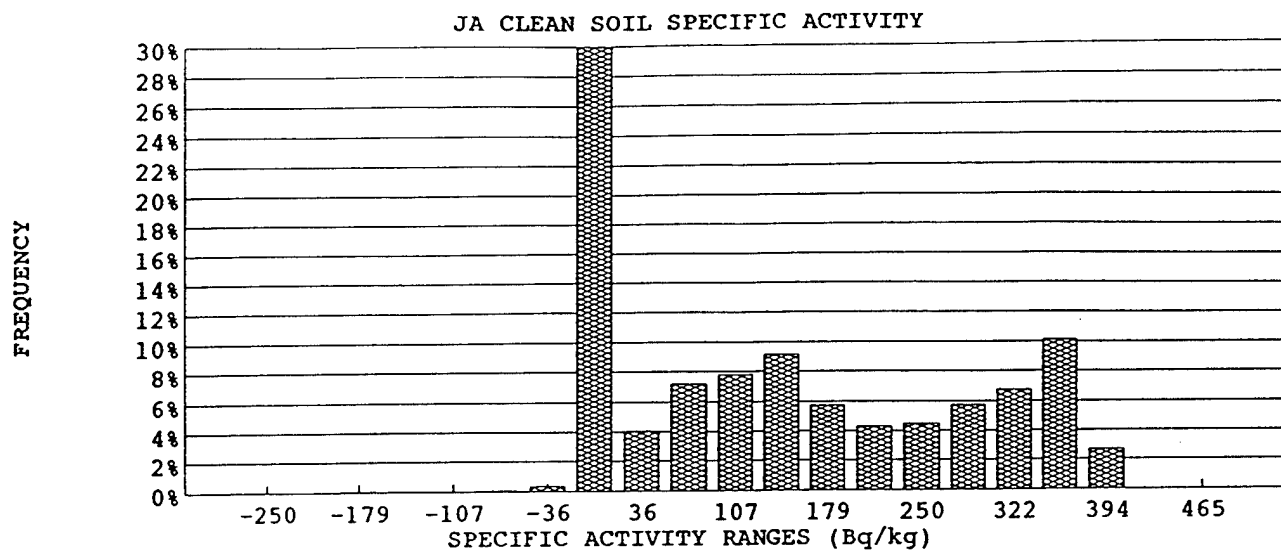
Date	11-Mar-94	Excused Delays for day (sorter-hrs)	20 hr
Contract day (from 6 Sep)	149	Excused delays for contract (sorter-hrs)	2,296 hr
Current Contract week	25	Excused delay days (plant-days)	57 days
		Excused delay months (plant-month)	2.21 months
Soil production for Day	131 MT		
Cumulative Soil Production for Week	131 MT	Percent of contract completed	36.1%
Total Soil production for contract		Tons Ahead or Behind Schedule	1,663 MT
Since 6 Sep 93	34,468 MT	Days ahead or behind schedule	5 days
Since 6 Aug 93	36,059 MT		
Total Soil production for project	62,345 MT		

MT = metric tons

SORTER 1										11-Mar-94	
SORTER SOIL DENSITY					1.20 tons/m ³		BACKGROUND		0.67 ± 0.02 c/s		
SOIL					CONTAMINATED		CLEAN		TOTAL		
MASS TOTAL					7.8 tons		58.2 tons		66.0 tons		
MAXIMUM/SORT					58.1 kg		55.9 kg				
MINIMUM/SORT					0.7 kg		43.3 kg				
VOLUME IN-GROUND					6.2 yd ³		46.2 yd ³		52.3 yd ³		
WEIGHT RECOVERY (CLEAN/(HOT+CLEAN))					88.2%						
ACTIVITY					PARTICLE		DISPERSED + PARTICLE				
					HOT		CLEAN				
TOTAL					99,666 kBq		37,549 kBq		10,465 kBq		
MAXIMUM/SORT					11,480 kBq		13,938 kBq		21 kBq		
MINIMUM/SORT					3 kBq		0 Bq		-7 kBq		
SPECIFIC ACTIVITY							4,826 Bq/kg		180 Bq/kg		
SORTS											
20-SEC PROCESS PERIODS							1,181		UNEXP PAUSE		
ALL 80 ELEMENTS SORT (MD>0&MND=0)					122				TIME TIME		
NONE (AD=0 & MD=0 & MND>0)					672				11:06 None		
SOME (AD>0&0<MD<MNDmax&MND<MNDmax)					387				11:26		
UNEXPLAINED RECORDS					0						
0<AD<1kBq & MD>0					2						
AD=0 & MD>0					0						
AD<0 & MD >0					0						
2-SEC COUNT PERIODS							11,810				
2-SEC RECORDS WITH SORTS					1,244						
2-SEC RECORDS WITHOUT SORTS					10,566						
TOTAL PROCESS RECORDS (2-s SORTS and 20-s PERIODS)							2,425				
NONPROCESSING RECORDS (Test, calibration, etc)							2				
2-SEC SORT DETECTORS											
1 DET		886	71.2%	5 DET		4	0.3%				
2 DET		275	22.1%	6 DET		0	0.0%				
3 DET		68	5.5%	7 DET		0	0.0%				
4 DET		11	0.9%	8 DET		0	0.0%				
AVERAGE TIME BETWEEN 2-SEC SORTS					26.7 sec						
FREQUENCY DISTRIBUTIONS											
1-GATE SORTS			ACT_ND	NUM	SPEC_A	FREQ%	ACT_P	NUM	FREQ%		
DET	SORTS	FREQ%	(Bq)	(#)	(Bq/kg)		(kBq)	(#)			
1	11	1.8%	-14000	1	-250	0.1%	4	70	5.6%		
2	23	3.7%	-12000	1	-215	0.1%	8	534	42.9%		
3	80	12.7%	-10000	0	-179	0.0%	12	221	17.8%		
4	126	20.1%	-8000	0	-143	0.0%	16	117	9.4%		
5	144	22.9%	-6000	1	-107	0.1%	20	58	4.7%		
6	115	18.3%	-4000	4	-72	0.3%	24	41	3.3%		
7	101	16.1%	-2000	12	-36	1.0%	28	30	2.4%		
8	28	4.5%	0	162	0	13.7%	32	18	1.4%		
TOTAL			2000	70	36	5.9%	36	19	1.5%		
			4000	107	72	9.0%	40	12	1.0%		
			6000	125	107	10.6%	44	4	0.3%		
2-GATE SORTS			8000	94	143	7.9%	48	9	0.7%		
9	13	2.1%	10000	84	179	7.1%	52	5	0.4%		
10	45	7.3%	12000	71	215	6.0%	56	10	0.8%		
11	103	16.7%	14000	98	250	8.3%	60	10	0.8%		
12	146	23.7%	16000	107	286	9.0%	64	7	0.6%		
13	142	23.1%	18000	119	322	10.1%	68	7	0.6%		
14	104	16.9%	20000	113	358	9.6%	72	2	0.2%		
15	63	10.2%	22000	14	394	1.2%	76	3	0.2%		
TOTAL			24000	0	429	0.0%	80	4	0.3%		
			26000	0	465	0.0%	84	3	0.2%		
			>28000	0	0	0.0%	>84	60	4.8%		
			TOTAL	1,183			TOTAL	1,244			
EVENT TYPES			HPE	1,214	MPE	47	DISE	9872			



SORTER 2				11-Mar-94					
SORTER SOIL DENSITY		1.20 tons/m ³		BACKGROUND		0.78 ± 0.01 c/s			
SOIL		CONTAMINATED		CLEAN		TOTAL			
MASS TOTAL		20.5 tons		44.7 tons		65.2 tons			
MAXIMUM/SORT		58.1 kg		55.9 kg					
MINIMUM/SORT		0.7 kg		44.0 kg					
VOLUME IN-GROUND		16.3 yd ³		35.4 yd ³		51.7 yd ³			
WEIGHT RECOVERY (CLEAN/(HOT+CLEAN))		68.5%							
ACTIVITY		PARTICLE		DISPERSED + PARTICLE					
		HOT		CLEAN					
TOTAL		25,177 kBq		18,155 kBq		8,512 kBq			
MAXIMUM/SORT		864 kBq		636 kBq		21 kBq			
MINIMUM/SORT		2 kBq		0 Bq		-5 kBq			
SPECIFIC ACTIVITY				885 Bq/kg		191 Bq/kg			
SORTS									
20-SEC PROCESS PERIODS				1,166		UNEXP PAUSE			
ALL 80 ELEMENTS SORT (MD>0&MND=0)				353		TIME TIME			
NONE (AD=0 & MD=0 & MND>0)				510		09:56 13:25			
SOME (AD>0&0<MD<MNDmax&MND<MNDmax)				303		13:49			
UNEXPLAINED RECORDS				0					
0<AD<1kBq & MD>0				2					
AD=0 & MD>0				0					
AD<0 & MD >0				0					
2-SEC COUNT PERIODS				11,660					
2-SEC RECORDS WITH SORTS				1,438					
2-SEC RECORDS WITHOUT SORTS				10,222					
TOTAL PROCESS RECORDS (2-s SORTS and 20-s PERIODS)				2,604					
NONPROCESSING RECORDS (Test, calibration, etc)				2					
2-SEC SORT DETECTORS									
1 DET		1,049	72.9%	5 DET	2	0.1%			
2 DET		317	22.0%	6 DET	0	0.0%			
3 DET		60	4.2%	7 DET	0	0.0%			
4 DET		10	0.7%	8 DET	0	0.0%			
AVERAGE TIME BETWEEN 2-SEC SORTS				22.2 sec					
FREQUENCY DISTRIBUTIONS									
1-GATESORTS		ACT_ND	NUM	SPEC_A	FREQ%	ACT_P	NUM	FREQ%	
DET	SORTS	(Bq)	(#)	(Bq/kg)		(kBq)	(#)		
1	28	4.0%	-14000	0	-250	0.0%	4	147	10.2%
2	115	16.4%	-12000	0	-215	0.0%	8	628	43.7%
3	147	20.9%	-10000	1	-179	0.1%	12	248	17.2%
4	123	17.5%	-8000	1	-143	0.1%	16	117	8.1%
5	126	17.9%	-6000	0	-107	0.0%	20	72	5.0%
6	89	12.7%	-4000	1	-72	0.1%	24	47	3.3%
7	62	8.8%	-2000	4	-36	0.3%	28	29	2.0%
8	13	1.8%	0	368	0	31.5%	32	22	1.5%
TOTAL	703		2000	47	36	4.0%	36	18	1.3%
			4000	84	72	7.2%	40	11	0.8%
			6000	91	107	7.8%	44	5	0.3%
2-GATESORTS			8000	107	143	9.2%	48	11	0.8%
DET	SORTS	FREQ%							
9	64	8.7%	10000	67	179	5.7%	52	9	0.6%
10	151	20.5%	12000	50	215	4.3%	56	5	0.3%
11	159	21.6%	14000	52	250	4.5%	60	5	0.3%
12	141	19.2%	16000	67	286	5.7%	64	2	0.1%
13	104	14.1%	18000	79	322	6.8%	68	7	0.5%
14	82	11.2%	20000	118	358	10.1%	72	6	0.4%
15	34	4.6%	22000	31	394	2.7%	76	5	0.3%
TOTAL	735		24000	0	429	0.0%	80	0	0.0%
			26000	0	465	0.0%	84	5	0.3%
			>28000	0	0	0.0%	>84	39	2.7%
			TOTAL	1,168			TOTAL	1,438	
EVENT TYPES		HPE	1,432	MPE	40	DISE	27885		



WORK HISTORY - JA SOIL CLEANUP PLANT

12-Mar-94

WORK DAY START	06:00	AM	WORK DAY END	16:30	PM
LUNCH START	11:00	AM	TIME LOST DURING LUNCH	0.5	HR

	SORTER 1	SORTER 2	SORTER 3	SORTER 4	TOTAL (sorter hours)
WORK HOURS	10.0 hr	10.0 hr	10.0 hr	10.0 hr	40.0 hr
SORTER AVAILABLE HOURS	0.0 hr	0.0 hr	0.0 hr	0.0 hr	0.0 hr
SORTER START-UP	NA	NA	NA	NA	
START SOIL PROCESSING	NA	NA	NA	NA	
TIME REQUIRED TO START-UP	0.0 hr	0.0 hr	0.0 hr	0.0 hr	0.0 hr
SORTER SHUT-DOWN	NA	NA	NA	NA	
END SOIL PROCESSING	NA	NA	NA	NA	
TIME REQUIRED TO SHUT DOWN	0.0 hr	0.0 hr	0.0 hr	0.0 hr	0.0 hr
ACTUAL PROCESS HOURS	0.0 hr	0.0 hr	0.0 hr	0.0 hr	0.0 hr
DOWN-TIME	0.0 hr	0.0 hr	0.0 hr	0.0 hr	0.0 hr
SYSTEM PAUSE	0.0 hr	0.0 hr	0.0 hr	0.0 hr	0.0 hr
SORTER NONAVAILABLE TIME	10.0 hr	10.0 hr	10.0 hr	10.0 hr	40.0 hr
AUTHORIZED DELAY TIME	10.0 hr	10.0 hr	10.0 hr	10.0 hr	40.0 hr
PLANT PERFORMANCE					NA
PRODUCTIVITY					0.0%

PRODUCTIVITY

Date	14-Mar-94	Excused Delays for day (sorter-hrs)	40 hr
Contract day (from 6 Sep)	151	Excused delays for contract (sorter-hrs)	2,386 hr
Current Contract week	26	Excused delay days (plant-days)	60 days
		Excused delay months (plant-month)	2.29 months
Soil production for Day	0 MT		
Cumulative Soil Production for Week	0 MT	Percent of contract completed	36.1%
Total Soil production for contract		Tons Ahead or Behind Schedule	1,742 MT
Since 6 Sep 93	34,468 MT	Days ahead or behind schedule	6 days
Since 6 Aug 93	36,059 MT		
Total Soil production for project	62,345 MT		

MT = metric tons

WORK HISTORY - JA SOIL CLEANUP PLANT

14-Mar-94

WORK DAY START	6:00	AM	WORK DAY END	16:30	PM
LUNCH START	11:00	AM	TIME LOST DURING LUNCH	0.5	HR

	SORTER 1	SORTER 2	SORTER 3	SORTER 4	TOTAL (sorter hours)
WORK HOURS	10.0 hr	10.0 hr	10.0 hr	10.0 hr	40.0 hr
SORTER AVAILABLE HOURS	0.0 hr	0.0 hr	0.0 hr	0.0 hr	0.0 hr
SORTER START-UP	NA	NA	NA	NA	
START SOIL PROCESSING	NA	NA	NA	NA	
TIME REQUIRED TO START-UP	0.0 hr	0.0 hr	0.0 hr	0.0 hr	0.0 hr
SORTER SHUT-DOWN	NA	NA	NA	NA	
END SOIL PROCESSING	NA	NA	NA	NA	
TIME REQUIRED TO SHUT DOWN	0.0 hr	0.0 hr	0.0 hr	0.0 hr	0.0 hr
ACTUAL PROCESS HOURS	0.0 hr	0.0 hr	0.0 hr	0.0 hr	0.0 hr
DOWN-TIME	0.0 hr	0.0 hr	0.0 hr	0.0 hr	0.0 hr
SYSTEM PAUSE	0.0 hr	0.0 hr	0.0 hr	0.0 hr	0.0 hr
SORTER NONAVAILABLE TIME	10.0 hr	10.0 hr	10.0 hr	10.0 hr	40.0 hr
AUTHORIZED DELAY TIME	10.0 hr	10.0 hr	10.0 hr	10.0 hr	40.0 hr
PLANT PERFORMANCE					NA
PRODUCTIVITY					0.0%

PRODUCTIVITY

Date	14-Mar-94	Excused Delays for day (sorter-hrs)	40 hr
Contract day (from 6 Sep)	151	Excused delays for contract (sorter-hrs)	2,386 hr
Current Contract week	26	Excused delay days (plant-days)	60 days
		Excused delay months (plant-month)	2.29 months
Soil production for Day	0 MT		
Cumulative Soil Production for Week	0 MT	Percent of contract completed	36.1%
Total Soil production for contract		Tons Ahead or Behind Schedule	1,742 MT
Since 6 Sep 93	34,468 MT	Days ahead or behind schedule	6 days
Since 6 Aug 93	36,059 MT		
Total Soil production for project	62,345 MT		

MT = metric tons

WORK HISTORY - JA SOIL CLEANUP PLANT

15-Mar-94

WORK DAY START	06:00 AM	WORK DAY END	16:30 PM
LUNCH START	11:00 AM	TIME LOST DURING LUNCH	0.0 HR

	SORTER 1	SORTER 2	SORTER 3	SORTER 4	TOTAL (sorter hours)
WORK HOURS	10.5 hr	10.5 hr	10.5 hr	10.5 hr	42.0 hr
SORTER AVAILABLE HOURS	10.3 hr	10.3 hr	0.0 hr	0.0 hr	20.5 hr
SORTER START-UP	06:00	06:00	NA	NA	
START SOIL PROCESSING	06:51	06:51	NA	NA	
TIME REQUIRED TO START-UP	0.9 hr	0.9 hr	0.0 hr	0.0 hr	1.7 hr
SORTER SHUT-DOWN	16:15	16:15	NA	NA	
END SOIL PROCESSING	15:41	15:41	NA	NA	
TIME REQUIRED TO SHUT DOWN	0.6 hr	0.6 hr	0.0 hr	0.0 hr	1.1 hr
ACTUAL PROCESS HOURS	7.1 hr	6.9 hr	0.0 hr	0.0 hr	14.1 hr
DOWN-TIME	3.1 hr	3.3 hr	0.0 hr	0.0 hr	6.4 hr
SYSTEM PAUSE	1.7 hr	1.9 hr	0.0 hr	0.0 hr	3.7 hr
SORTER NONAVAILABLE TIME	0.2 hr	0.2 hr	10.0 hr	10.0 hr	20.5 hr
AUTHORIZED DELAY TIME	0.0 hr	0.0 hr	10.0 hr	10.0 hr	20.0 hr
PLANT PERFORMANCE					68.7%
PRODUCTIVITY					33.5%

PRODUCTIVITY

Date	15-Mar-94	Excused Delays for day (sorter-hrs)	20 hr
Contract day (from 6 Sep)	152	Excused delays for contract (sorter-hrs)	2,406 hr
Current Contract week	26	Excused delay days (plant-days)	60 days
		Excused delay months (plant-month)	2.31 months
Soil production for Day	142 MT		
Cumulative Soil Production for Week	142 MT	Percent of contract completed	36.2%
Total Soil production for contract		Tons Ahead or Behind Schedule	1,725 MT
Since 6 Sep 93	34,609 MT	Days ahead or behind schedule	5 days
Since 6 Aug 93	36,200 MT		
Total Soil production for project	62,487 MT		

MT = metric tons

SORTER 1

15-Mar-94

SORTER SOIL DENSITY		1.20 tons/m ³	BACKGROUND		0.67 ± 0.04 c/s
SOIL	CONTAMINATED		CLEAN	TOTAL	
MASS TOTAL	8.1 tons		63.8 tons	71.9 tons	
MAXIMUM/SORT	58.1 kg		55.9 kg		
MINIMUM/SORT	0.7 kg		44.0 kg		
VOLUME IN-GROUND	6.4 yd ³		50.6 yd ³	57.0 yd ³	
WEIGHT RECOVERY (CLEAN/(HOT+CLEAN))		88.8%			

ACTIVITY

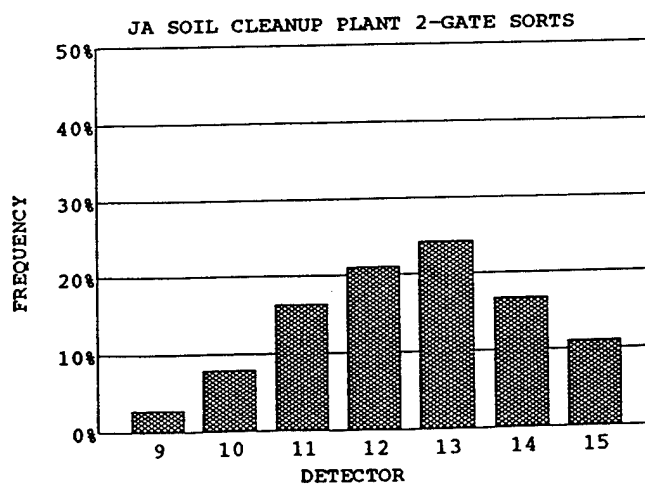
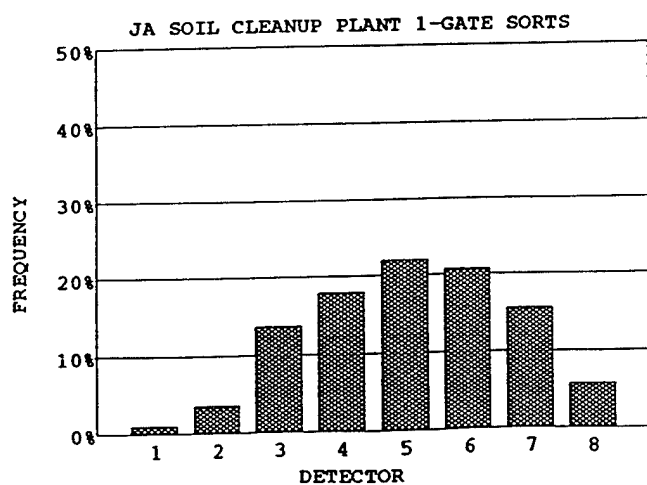
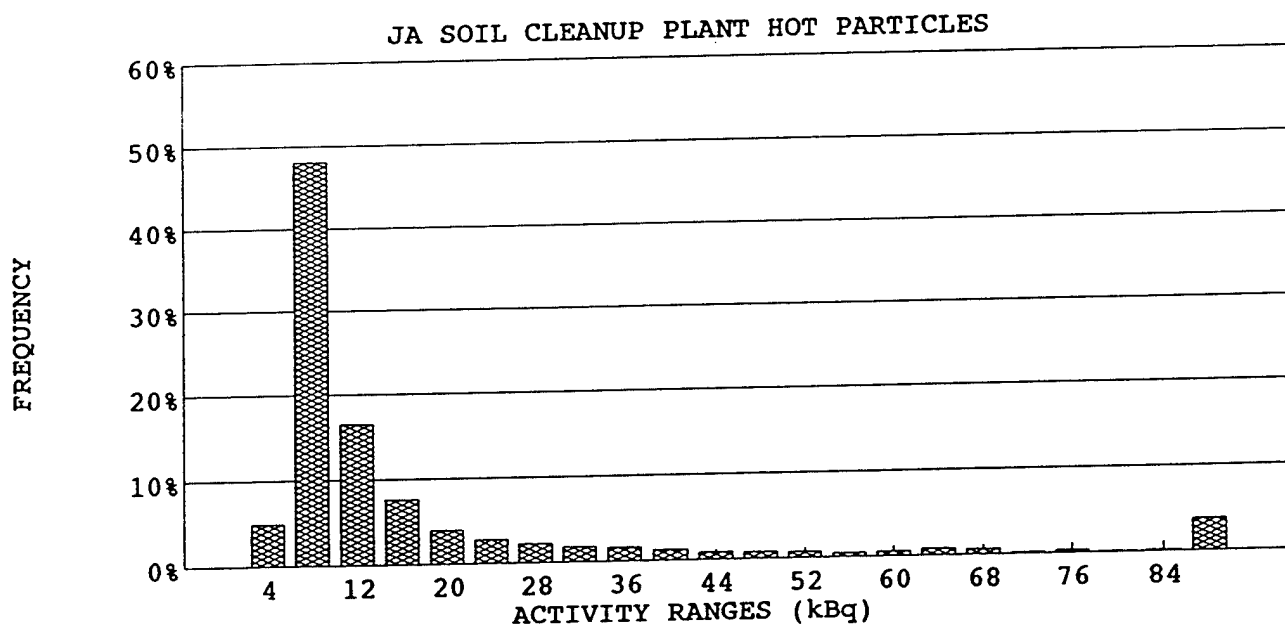
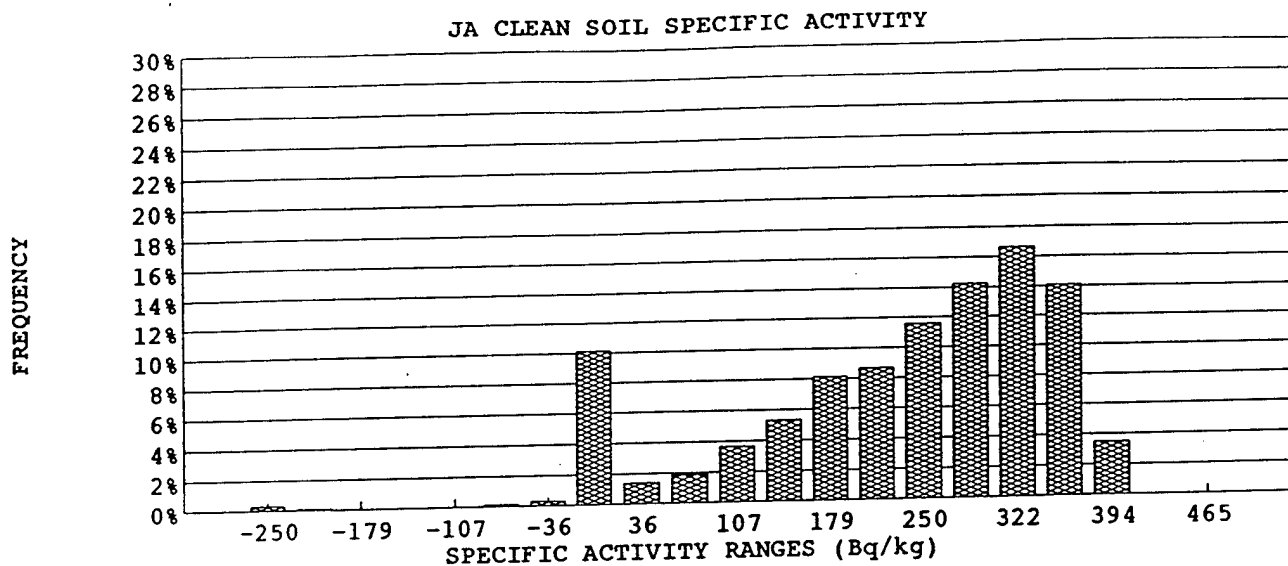
	DISPERSED + PARTICLE	
	PARTICLE	CLEAN
TOTAL	38,323 kBq	15,304 kBq
MAXIMUM/SORT	2,499 kBq	1,353 kBq
MINIMUM/SORT	3 kBq	0 Bq
SPECIFIC ACTIVITY	1,893 Bq/kg	247 Bq/kg

SORTS

20-SEC PROCESS PERIODS		1,286	UNEXP	PAUSE
			TIME	TIME
ALL 80 ELEMENTS SORT (MD>0&MND=0)		124	07:29	06:52
NONE (AD=0 & MD=0 & MND>0)		646	07:29	07:30
SOME (AD>0&0<MD<MNDmax&MND<MNDmax)		516	08:05	07:40
UNEXPLAINED RECORDS		0		07:44
0<AD<1kBq & MD>0		0		08:08
AD=0 & MD>0		2		08:27
AD<0 & MD >0		0		
2-SEC COUNT PERIODS		12,860		
2-SEC RECORDS WITH SORTS		1,343		
2-SEC RECORDS WITHOUT SORTS		11,517		
TOTAL PROCESS RECORDS (2-s SORTS and 20-s PERIODS)		2,629		
NONPROCESSING RECORDS (Test, calibration, etc)		7		
2-SEC SORT DETECTORS				
1 DET	994 74.0%	5 DET	1	0.1%
2 DET	270 20.1%	6 DET	0	0.0%
3 DET	63 4.7%	7 DET	0	0.0%
4 DET	15 1.1%	8 DET	0	0.0%
AVERAGE TIME BETWEEN 2-SEC SORTS		25.9 sec		

FREQUENCY DISTRIBUTIONS

1-GATE SORTS			ACT_ND	NUM	SPEC_A	FREQ%	ACT_P	NUM	FREQ%
DET	SORTS	FREQ%	(Bq)	(#)	(Bq/kg)		(kBq)	(#)	
1	7	1.0%	-14000	4	-250	0.3%	4	66	4.9%
2	24	3.5%	-12000	1	-215	0.1%	8	646	48.1%
3	94	13.7%	-10000	0	-179	0.0%	12	222	16.5%
4	123	17.9%	-8000	0	-143	0.0%	16	103	7.7%
5	151	22.0%	-6000	0	-107	0.0%	20	53	3.9%
6	142	20.7%	-4000	2	-72	0.2%	24	37	2.8%
7	107	15.6%	-2000	4	-36	0.3%	28	30	2.2%
8	39	5.7%	0	131	0	10.1%	32	24	1.8%
TOTAL	687		2000	18	36	1.4%	36	22	1.6%
2-GATE SORTS			4000	24	72	1.9%	40	17	1.3%
DET	SORTS	FREQ%	6000	47	107	3.6%	44	12	0.9%
9	18	2.7%	8000	69	143	5.3%	48	10	0.7%
10	52	7.9%	10000	105	179	8.1%	52	9	0.7%
11	107	16.3%	12000	112	215	8.7%	56	6	0.4%
12	138	21.0%	14000	150	250	11.6%	60	7	0.5%
13	159	24.2%	16000	184	286	14.2%	64	11	0.8%
14	110	16.8%	18000	215	322	16.6%	68	8	0.6%
15	72	11.0%	20000	182	358	14.1%	72	2	0.1%
TOTAL	656		22000	45	394	3.5%	76	4	0.3%
			24000	0	429	0.0%	80	1	0.1%
			26000	0	465	0.0%	84	2	0.1%
			>28000	0	0	0.0%	>84	51	3.8%
			TOTAL	1,293			TOTAL	1,343	
EVENT TYPES	HPE	1,347	MPE	55	DISE	10162			



SORTER 2

15-Mar-94

SORTER SOIL DENSITY		1.20 tons/m ³	BACKGROUND		0.85 ± 1.27 c/s
SOIL		CONTAMINATED	CLEAN	TOTAL	
	MASS TOTAL	16.0 tons	53.8 tons	69.8 tons	
	MAXIMUM/SORT	58.1 kg	55.9 kg		
	MINIMUM/SORT	0.7 kg	39.1 kg		
	VOLUME IN-GROUND	12.7 yd ³	42.7 yd ³	55.3 yd ³	
	WEIGHT RECOVERY (CLEAN/(HOT+CLEAN))		77.1%		

ACTIVITY

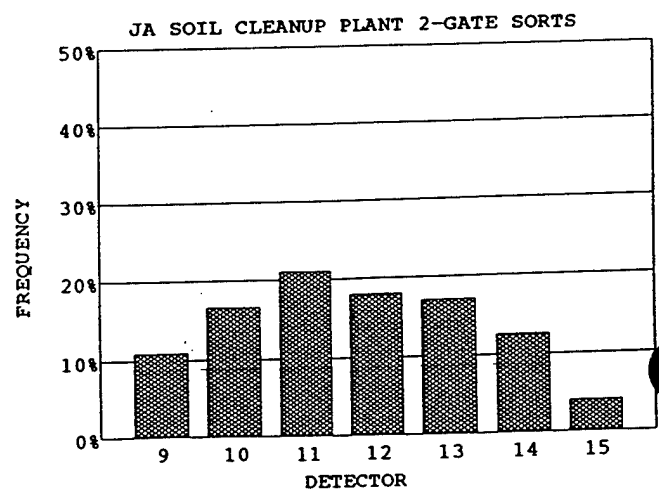
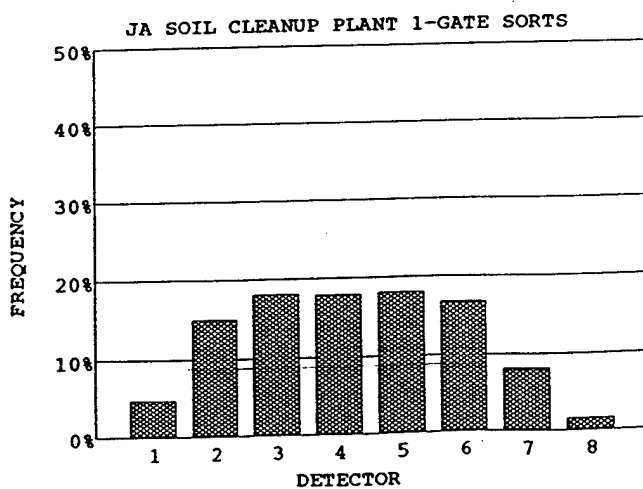
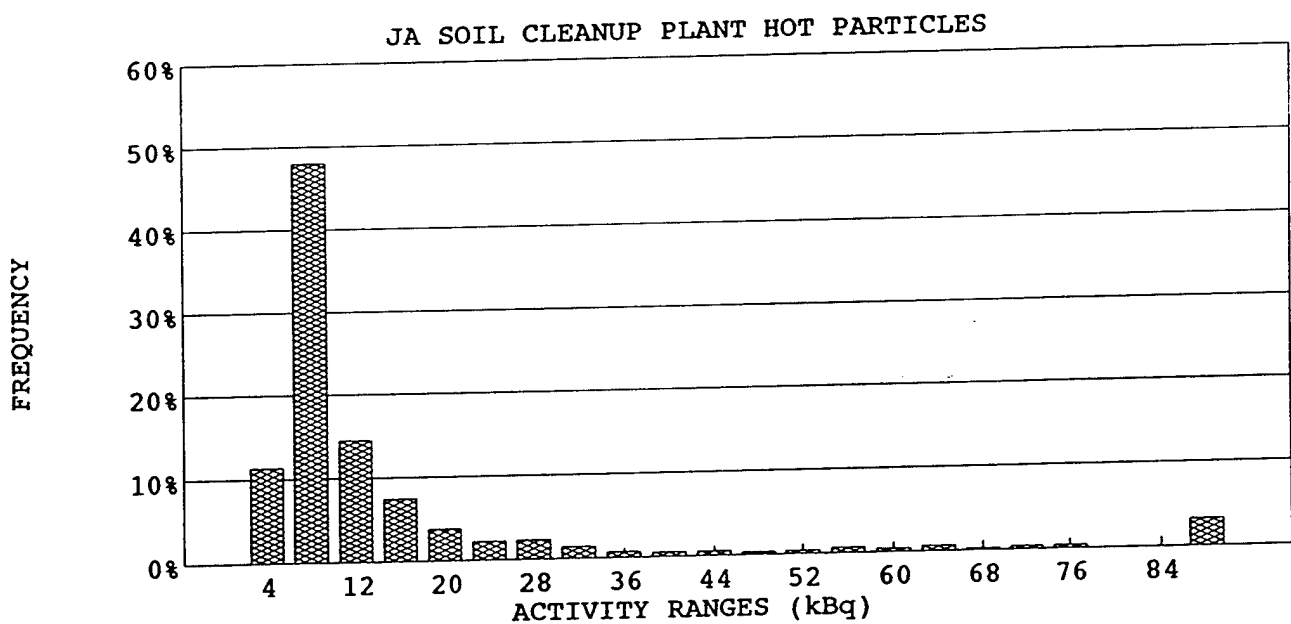
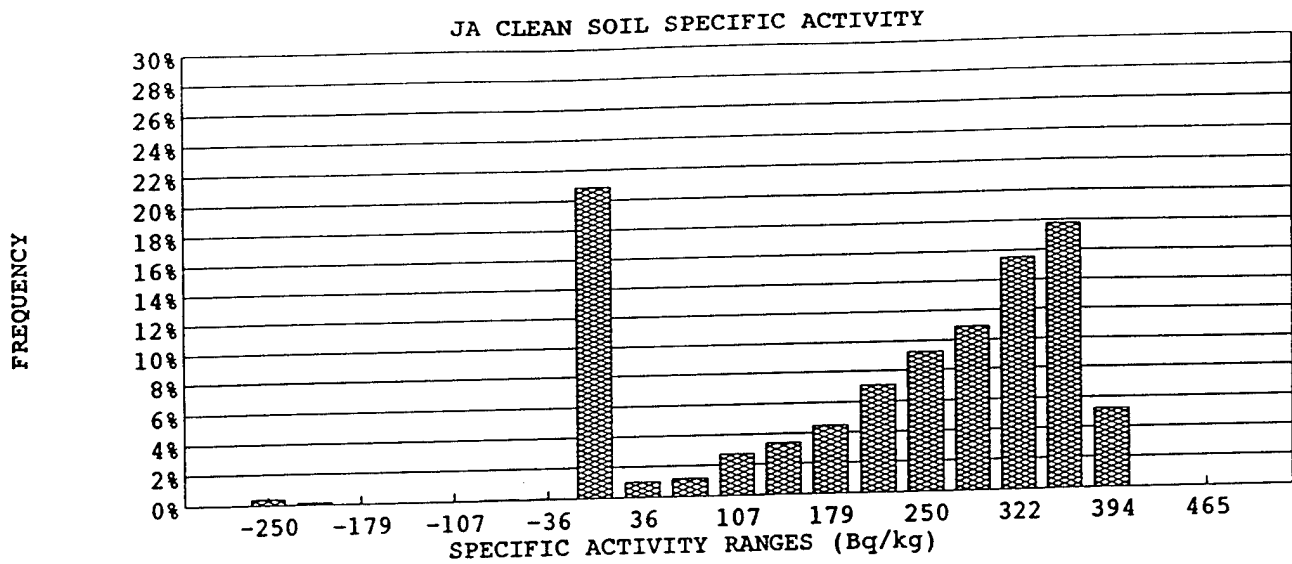
ACTIVITY		PARTICLE	DISPERSED + PARTICLE	
			HOT	CLEAN
	TOTAL	39,852 kBq	32,315 kBq	14,471 kBq
	MAXIMUM/SORT	2,830 kBq	2,574 kBq	21 kBq
	MINIMUM/SORT	2 kBq	0 Bq	-3 kBq
SPECIFIC ACTIVITY			2,024 Bq/kg	269 Bq/kg

SORTS

20-SEC PROCESS PERIODS		1,248	UNEXP	PAUSE
ALL 80 ELEMENTS SORT (MD>0&MND=0)		260	TIME	TIME
NONE (AD=0 & MD=0 & MND>0)		425	07:29	06:52
SOME (AD>0&0<MD<MNDmax&MND<MNDmax)		563	07:30	07:29
UNEXPLAINED RECORDS		0	08:05	07:30
0<AD<1kBq & MD>0		0	08:22	07:37
AD=0 & MD>0		5	08:24	07:43
AD<0 & MD >0		0		07:45
2-SEC COUNT PERIODS		12,480		08:05
2-SEC RECORDS WITH SORTS		1,868		08:22
2-SEC RECORDS WITHOUT SORTS		10,612		08:24
TOTAL PROCESS RECORDS (2-s SORTS and 20-s PERIODS)		3,116		
NONPROCESSING RECORDS (Test, calibration, etc)		8		
2-SEC SORT DETECTORS				
1 DET	1,395 74.7%	5 DET	5	0.3%
2 DET	398 21.3%	6 DET	0	0.0%
3 DET	58 3.1%	7 DET	0	0.0%
4 DET	12 0.6%	8 DET	0	0.0%
AVERAGE TIME BETWEEN 2-SEC SORTS		17.9 sec		

FREQUENCY DISTRIBUTIONS

1-GATE SORTS			ACT_ND	NUM	SPEC_A	FREQ%	ACT_P	NUM	FREQ%
DET	SORTS	FREQ%	(Bq)	(#)	(Bq/kg)		(kBq)	(#)	
1	45	4.7%	-14000	5	-250	0.4%	4	211	11.3%
2	142	14.9%	-12000	2	-215	0.2%	8	897	48.0%
3	172	18.1%	-10000	0	-179	0.0%	12	271	14.5%
4	170	17.9%	-8000	0	-143	0.0%	16	139	7.4%
5	172	18.1%	-6000	0	-107	0.0%	20	71	3.8%
6	159	16.7%	-4000	1	-72	0.1%	24	43	2.3%
7	76	8.0%	-2000	1	-36	0.1%	28	44	2.4%
8	14	1.5%	0	262	0	20.9%	32	27	1.4%
TOTAL		950	2000	13	36	1.0%	36	14	0.7%
			4000	15	72	1.2%	40	11	0.6%
2-GATE SORTS			6000	34	107	2.7%	44	10	0.5%
DET	SORTS	FREQ%	8000	42	143	3.3%	48	6	0.3%
9	100	10.9%	10000	56	179	4.5%	52	7	0.4%
10	152	16.6%	12000	89	215	7.1%	56	12	0.6%
11	193	21.0%	14000	116	250	9.2%	60	8	0.4%
12	165	18.0%	16000	137	286	10.9%	64	12	0.6%
13	157	17.1%	18000	195	322	15.5%	68	5	0.3%
14	115	12.5%	20000	223	358	17.8%	72	8	0.4%
15	36	3.9%	22000	65	394	5.2%	76	8	0.4%
TOTAL		918	24000	0	429	0.0%	80	1	0.1%
			26000	0	465	0.0%	84	1	0.1%
			>28000	0	0	0.0%	>84	62	3.3%
			TOTAL	1,256			TOTAL	1,868	
EVENT TYPES		HPE	1,874	MPE	63	DISE	20906		



WORK HISTORY - JA SOIL CLEANUP PLANT

16-Mar-94

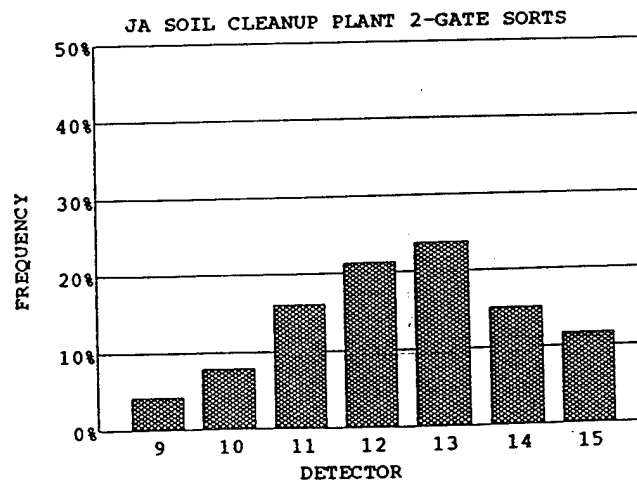
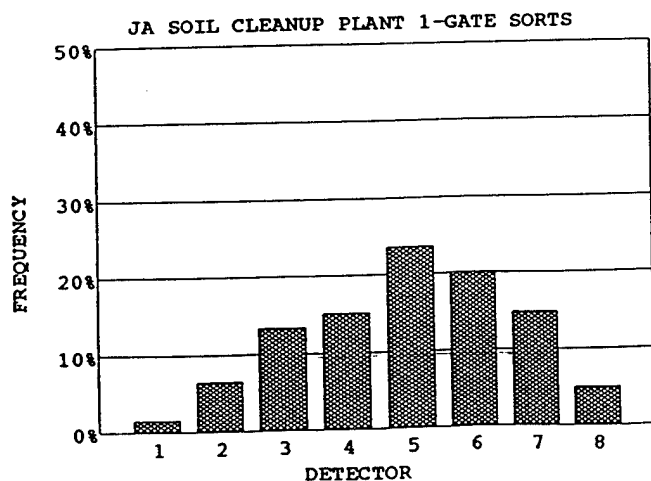
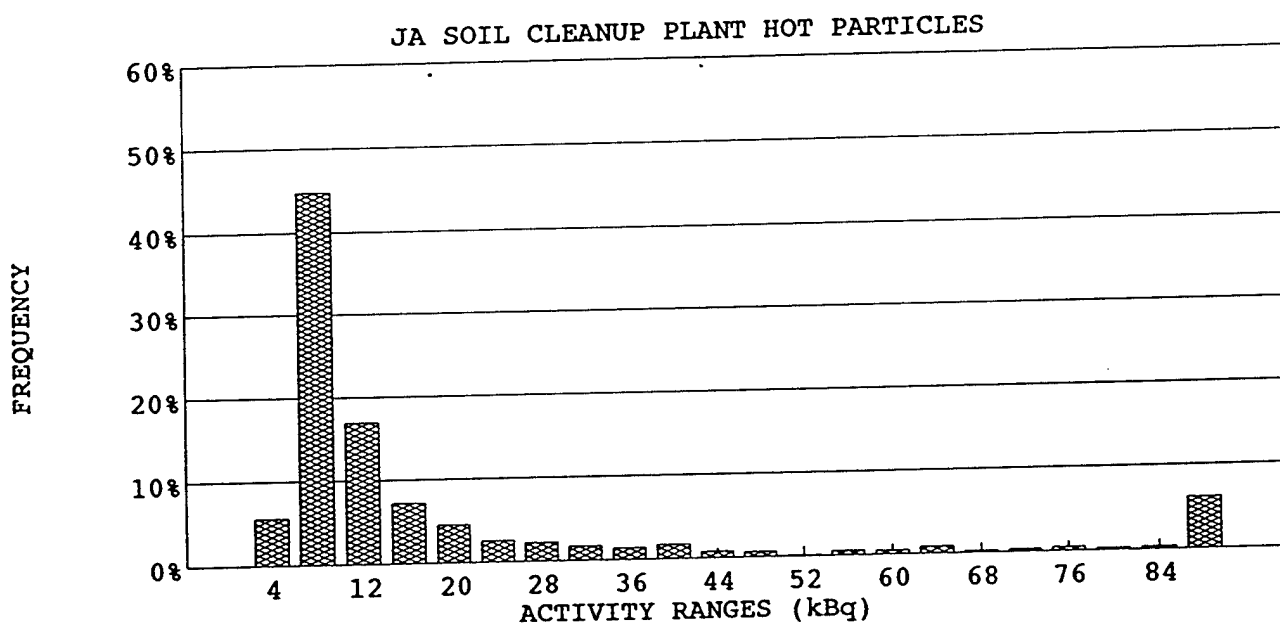
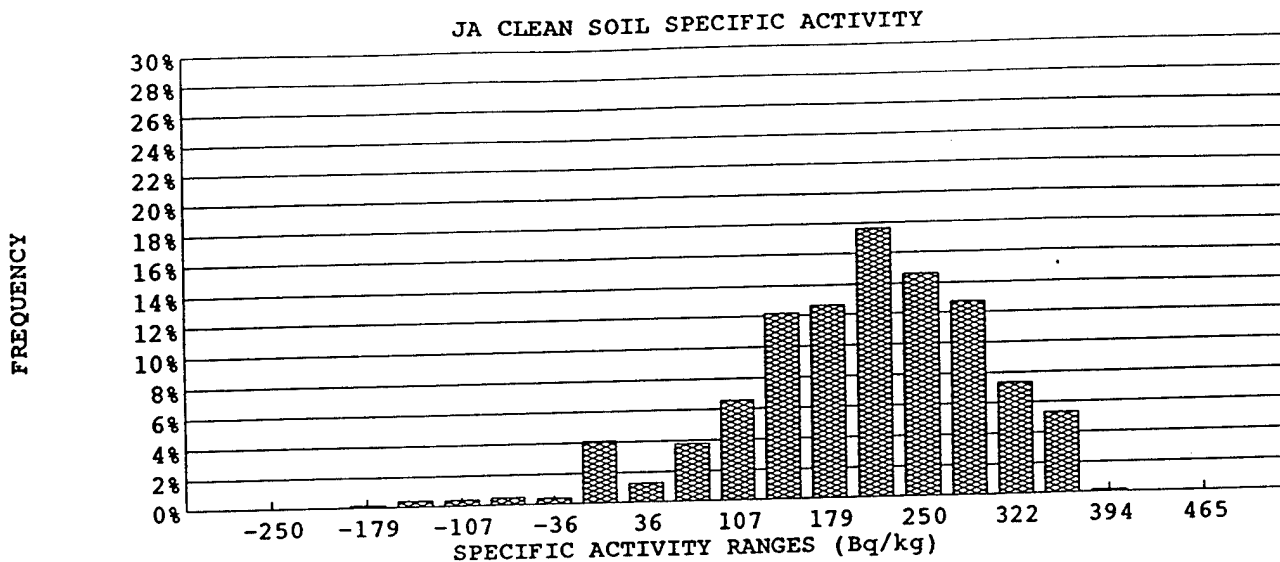
WORK DAY START	06:00 AM	WORK DAY END	16:30 PM		
LUNCH START	11:00 AM	TIME LOST DURING LUNCH	0.0 HR		
	SORTER 1	SORTER 2	SORTER 3	SORTER 4	TOTAL (sorter hours)
WORK HOURS	10.5 hr	10.5 hr	10.5 hr	10.5 hr	42.0 hr
SORTER AVAILABLE HOURS	10.3 hr	8.3 hr	0.0 hr	0.0 hr	18.5 hr
SORTER START-UP	06:00	08:00	NA	NA	
START SOIL PROCESSING	08:10	08:09	NA	NA	
TIME REQUIRED TO START-UP	2.2 hr	0.2 hr	0.0 hr	0.0 hr	2.3 hr
SORTER SHUT-DOWN	16:15	16:15	NA	NA	
END SOIL PROCESSING	15:56	15:55	NA	NA	
TIME REQUIRED TO SHUT DOWN	0.3 hr	0.3 hr	0.0 hr	0.0 hr	0.6 hr
ACTUAL PROCESS HOURS	7.2 hr	7.3 hr	0.0 hr	0.0 hr	14.5 hr
DOWN-TIME	3.1 hr	1.0 hr	0.0 hr	0.0 hr	4.1 hr
SYSTEM PAUSE	0.6 hr	0.5 hr	0.0 hr	0.0 hr	1.1 hr
SORTER NONAVAILABLE TIME	0.2 hr	2.2 hr	10.0 hr	10.0 hr	22.5 hr
AUTHORIZED DELAY TIME	2.5 hr	2.5 hr	10.0 hr	10.0 hr	25.0 hr
PLANT PERFORMANCE					78.1%
PRODUCTIVITY					34.4%

PRODUCTIVITY

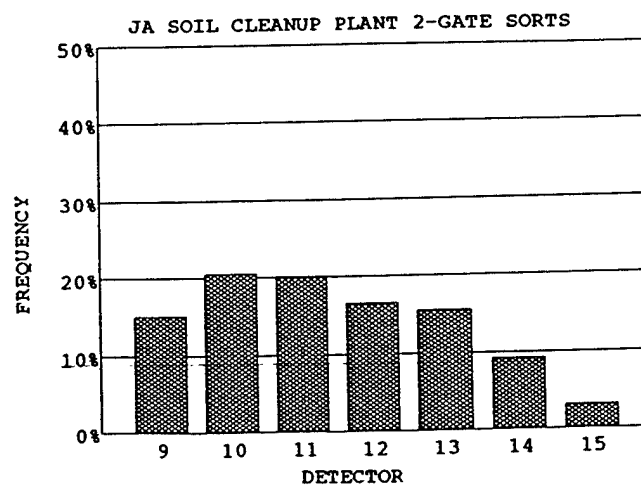
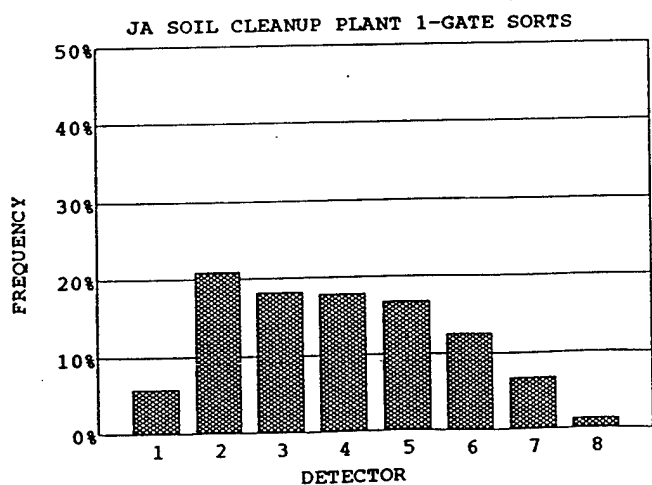
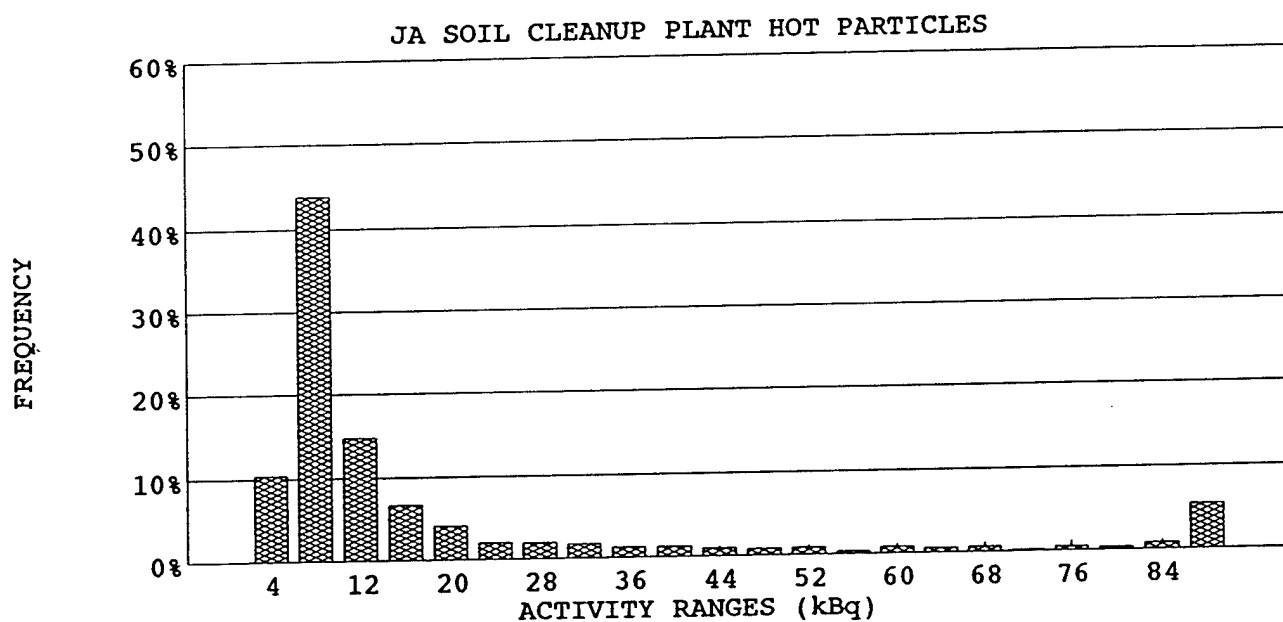
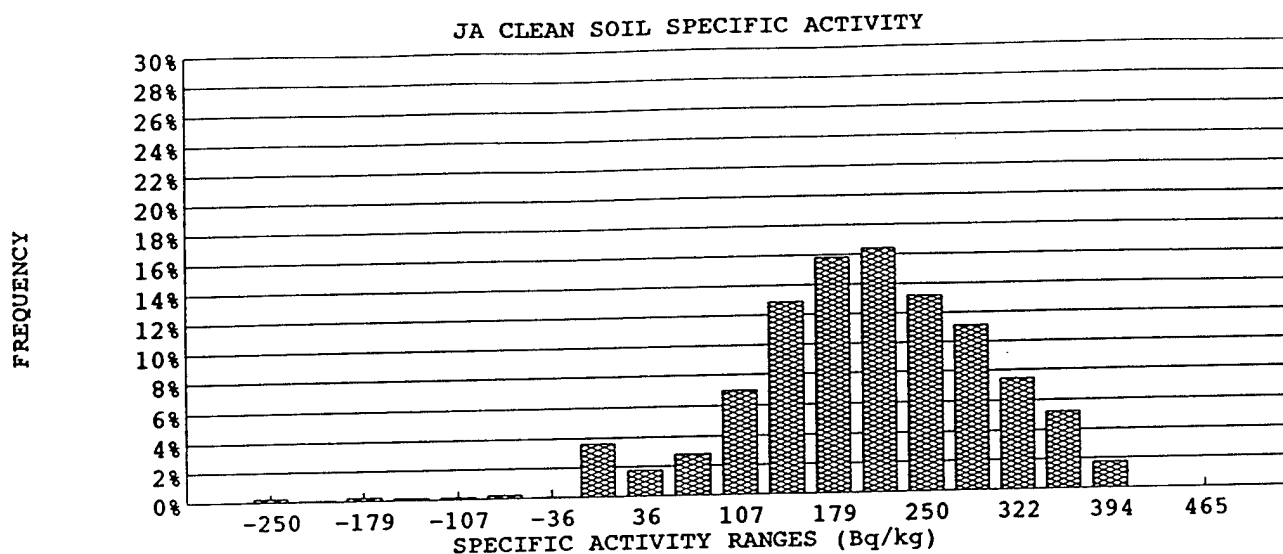
Date	16-Mar-94	Excused Delays for day (sorter-hrs)	25 hr
Contract day (from 6 Sep)	153	Excused delays for contract (sorter-hrs)	2,431 hr
Current Contract week	26	Excused delay days (plant-days)	61 days
		Excused delay months (plant-month)	2.34 months
Soil production for Day	145 MT		
Cumulative Soil Production for Week	287 MT	Percent of contract completed	36.3%
Total Soil production for contract		Tons Ahead or Behind Schedule	1,752 MT
Since 6 Sep 93	34,755 MT	Days ahead or behind schedule	6 days
Since 6 Aug 93	36,346 MT		
Total Soil production for project	62,632 MT		

MT = metric tons

16-Mar-94									
SORTER 1		SORTER SOIL DENSITY		1.20 tons/m ³		BACKGROUND		0.66 ± 0.02 c/s	
SOIL		CONTAMINATED		CLEAN		TOTAL			
MASS TOTAL		3.3 tons		68.9 tons		72.2 tons			
MAXIMUM/SORT		58.1 kg		55.9 kg					
MINIMUM/SORT		0.7 kg		44.0 kg					
VOLUME IN-GROUND		2.6 yd ³		54.6 yd ³		57.2 yd ³			
WEIGHT RECOVERY (CLEAN/(HOT+CLEAN))		95.4%							
ACTIVITY		PARTICLE		HOT		DISPERSED + PARTICLE CLEAN			
TOTAL		57,596 kBq		18,862 kBq		13,484 kBq			
MAXIMUM/SORT		6,808 kBq		3,990 kBq		20 kBq			
MINIMUM/SORT		3 kBq		(9,757)Bq		-12 kBq			
SPECIFIC ACTIVITY				5,694 Bq/kg		196 Bq/kg			
SORTS				1,291		UNEXP		PAUSE	
20-SEC PROCESS PERIODS						TIME		TIME	
ALL 80 ELEMENTS SORT (MD>0&MND=0)		47				09:10		09:04	
NONE (AD=0 & MD=0 & MND>0)		859				09:50		09:21	
SOME (AD>0&0<MD<MNDmax&MND<MNDmax)		385				13:01		09:51	
UNEXPLAINED RECORDS		0				14:55			
0<AD<1kBq & MD>0		2							
AD=0 & MD>0		1							
AD<0 & MD >0		1							
2-SEC COUNT PERIODS				12,910					
2-SEC RECORDS WITH SORTS		918							
2-SEC RECORDS WITHOUT SORTS		11,992							
TOTAL PROCESS RECORDS (2-s SORTS and 20-s PERIODS)				2,209					
NONPROCESSING RECORDS (Test, calibration, etc)				5					
2-SEC SORT DETECTORS									
1 DET		655	71.4%	5 DET	5	0.5%			
2 DET		205	22.3%	6 DET	0	0.0%			
3 DET		42	4.6%	7 DET	0	0.0%			
4 DET		11	1.2%	8 DET	0	0.0%			
AVERAGE TIME BETWEEN 2-SEC SORTS				39.4 sec					
FREQUENCY DISTRIBUTIONS									
1-GATE SORTS		ACT_ND	NUM	SPEC_A	FREQ%	ACT_P	NUM	FREQ%	
DET	SORTS	(Bq)	(#)	(Bq/kg)		(kBq)	(#)		
1	7	-14000	0	-250	0.0%	4	52	5.7%	
2	30	-12000	0	-215	0.0%	8	411	44.8%	
3	62	-10000	2	-179	0.2%	12	155	16.9%	
4	70	-8000	5	-143	0.4%	16	67	7.3%	
5	109	-6000	5	-107	0.4%	20	42	4.6%	
6	93	-4000	6	-72	0.5%	24	23	2.5%	
7	69	-2000	5	-36	0.4%	28	21	2.3%	
8	23	0	53	0	4.1%	32	16	1.7%	
TOTAL	463	2000	16	36	1.2%	36	13	1.4%	
2-GATE SORTS		4000	49	72	3.8%	40	16	1.7%	
DET	SORTS	6000	85	107	6.6%	44	7	0.8%	
9	19	8000	158	143	12.2%	48	6	0.7%	
10	36	10000	164	179	12.6%	52	1	0.1%	
11	73	12000	229	215	17.7%	56	5	0.5%	
12	97	14000	189	250	14.6%	60	4	0.4%	
13	108	16000	165	286	12.7%	64	8	0.9%	
14	69	18000	95	322	7.3%	68	2	0.2%	
15	53	20000	69	358	5.3%	72	3	0.3%	
TOTAL	455	22000	2	394	0.2%	76	4	0.4%	
		24000	0	429	0.0%	80	2	0.2%	
		26000	0	465	0.0%	84	3	0.3%	
		>28000	0	0	0.0%	>84	57	6.2%	
		TOTAL	1,297	31	DISE	TOTAL	918		
EVENT TYPES		HPE	925	MPE		3783			



SORTER 2		16-Mar-94			
SORTER SOIL DENSITY		1.20 tons/m ³		BACKGROUND	
				0.77 ± 0.03 c/s	
SOIL		CONTAMINATED		CLEAN	TOTAL
MASS TOTAL		3.0 tons		70.2 tons	73.2 tons
MAXIMUM/SORT		58.1 kg		55.9 kg	
MINIMUM/SORT		0.7 kg		41.9 kg	
VOLUME IN-GROUND		2.4 yd ³		55.7 yd ³	58.1 yd ³
WEIGHT RECOVERY (CLEAN/(HOT+CLEAN))		95.9%			
ACTIVITY		DISPERSED + PARTICLE			
		PARTICLE	HOT	CLEAN	
TOTAL		64,737 kBq	20,914 kBq	13,754 kBq	
MAXIMUM/SORT		7,737 kBq	4,599 kBq	21 kBq	
MINIMUM/SORT		2 kBq	(31,425) Bq	-15 kBq	
SPECIFIC ACTIVITY			6,987 Bq/kg	196 Bq/kg	
SORTS					
20-SEC PROCESS PERIODS		1,310		UNEXP	PAUSE
ALL 80 ELEMENTS SORT (MD>0&MND=0)		37		TIME	TIME
NONE (AD=0 & MD=0 & MND>0)		772		09:50	09:21
SOME (AD>0&0<MD<MNDmax&MND<MNDmax)		500		11:12	09:51
UNEXPLAINED RECORDS		1		14:23	
0<AD<1kBq & MD>0		3		15:02	
AD=0 & MD>0		0			
AD<0 & MD>0		1			
2-SEC COUNT PERIODS		13,100			
2-SEC RECORDS WITH SORTS		1,282			
2-SEC RECORDS WITHOUT SORTS		11,818			
TOTAL PROCESS RECORDS (2-s SORTS and 20-s PERIODS)		2,592			
NONPROCESSING RECORDS (Test, calibration, etc)		4			
2-SEC SORT DETECTORS					
1 DET	918 71.6%	5 DET	3	0.2%	
2 DET	302 23.6%	6 DET	0	0.0%	
3 DET	50 3.9%	7 DET	0	0.0%	
4 DET	9 0.7%	8 DET	0	0.0%	
AVERAGE TIME BETWEEN 2-SEC SORTS		28.5 sec			
FREQUENCY DISTRIBUTIONS					
1-GATES SORTS		ACT_ND	NUM	SPEC_A	FREQ%
DET	SORTS	(Bq)	(#)	(Bq/kg)	
1	37	5.7%	-14000 3	-250 0.2%	4
2	135	21.0%	-12000 1	-215 0.1%	8
3	117	18.2%	-10000 3	-179 0.2%	12
4	115	17.9%	-8000 2	-143 0.2%	16
5	108	16.8%	-6000 2	-107 0.2%	20
6	81	12.6%	-4000 3	-72 0.2%	24
7	43	6.7%	-2000 1	-36 0.1%	28
8	8	1.2%	0 47	0 3.6%	32
TOTAL	644		2000 23	36 1.8%	36
			4000 37	72 2.8%	40
			6000 92	107 7.0%	44
2-GATES SORTS			8000 169	143 12.9%	48
DET	SORTS	FREQ%	10000 208	179 15.8%	52
9	96	15.0%	12000 215	215 16.4%	56
10	131	20.5%	14000 173	250 13.2%	60
11	128	20.1%	16000 146	286 11.1%	64
12	105	16.5%	18000 98	322 7.5%	68
13	99	15.5%	20000 68	358 5.2%	72
14	59	9.2%	22000 23	394 1.8%	76
15	20	3.1%	24000 0	429 0.0%	80
TOTAL	638		26000 0	465 0.0%	84
			>28000 0	0 0.0%	>84
			TOTAL	1,314	TOTAL
EVENT TYPES		HPE	1,281	MPE	37
				DISE	3044



WORK HISTORY - JA SOIL CLEANUP PLANT

17-Mar-94

WORK DAY START	06:00 AM	WORK DAY END	16:30 PM
LUNCH START	11:00 AM	TIME LOST DURING LUNCH	0.0 HR

	SORTER 1	SORTER 2	SORTER 3	SORTER 4	TOTAL (sorter hours)
WORK HOURS	10.5 hr	10.5 hr	10.5 hr	10.5 hr	42.0 hr
SORTER AVAILABLE HOURS	10.3 hr	10.3 hr	0.0 hr	0.0 hr	20.5 hr
SORTER START-UP	06:00	06:00	NA	NA	
START SOIL PROCESSING	06:15	06:15	NA	NA	
TIME REQUIRED TO START-UP	0.3 hr	0.3 hr	0.0 hr	0.0 hr	0.5 hr
SORTER SHUT-DOWN	16:15	16:15	NA	NA	
END SOIL PROCESSING	15:52	15:53	NA	NA	
TIME REQUIRED TO SHUT DOWN	0.4 hr	0.4 hr	0.0 hr	0.0 hr	0.7 hr
ACTUAL PROCESS HOURS	9.6 hr	9.5 hr	0.0 hr	0.0 hr	19.1 hr
DOWN-TIME	0.6 hr	0.8 hr	0.0 hr	0.0 hr	1.4 hr
SYSTEM PAUSE	0.0 hr	0.2 hr	0.0 hr	0.0 hr	0.2 hr
SORTER NONAVAILABLE TIME	0.2 hr	0.2 hr	10.0 hr	10.0 hr	20.5 hr
AUTHORIZED DELAY TIME	0.0 hr	0.0 hr	10.0 hr	10.0 hr	20.0 hr
PLANT PERFORMANCE					93.1%
PRODUCTIVITY					45.4%

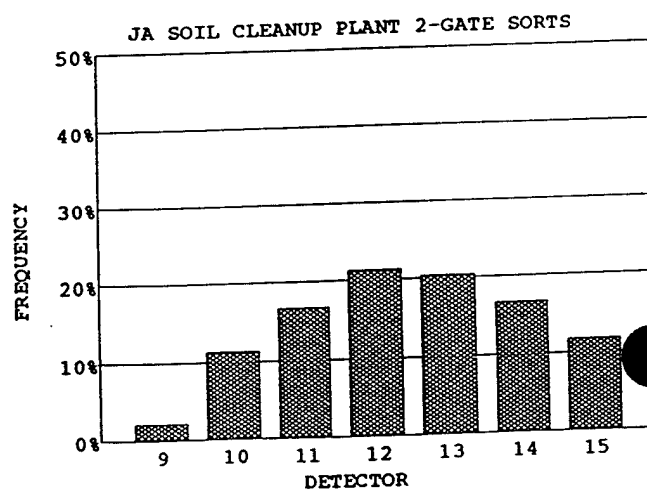
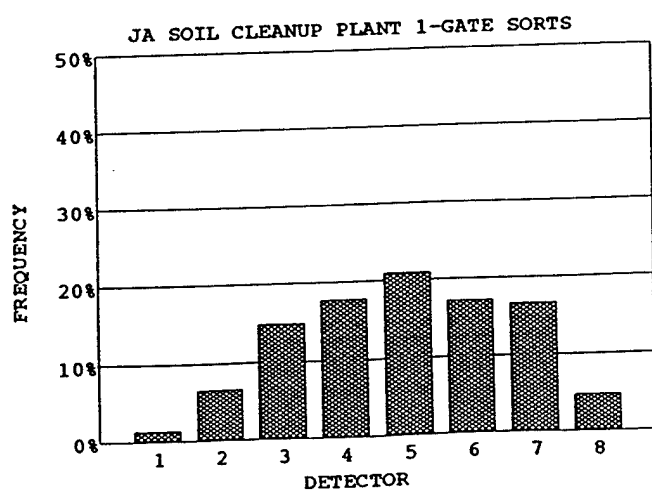
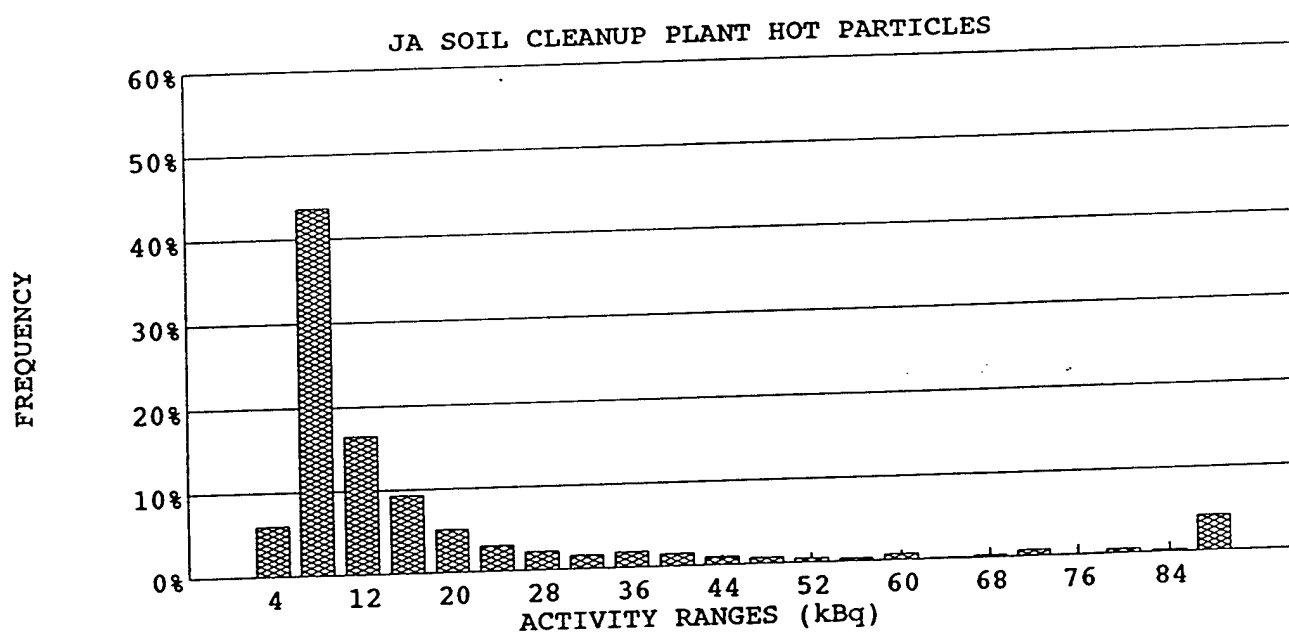
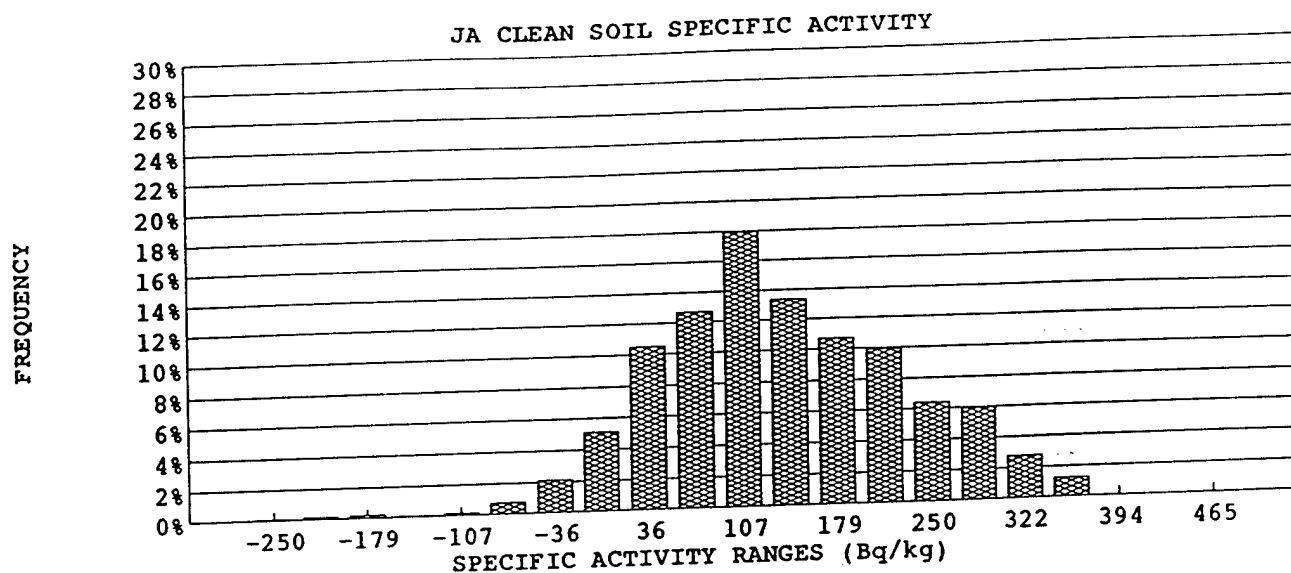
PRODUCTIVITY

Date	17-Mar-94	Excused Delays for day (sorter-hrs)	20 hr
Contract day (from 6 Sep)	154	Excused delays for contract (sorter-hrs)	2,451 hr
Current Contract week	26	Excused delay days (plant-days)	61 days
		Excused delay months (plant-month)	2.36 months
Soil production for Day	192 MT	Percent of contract completed	36.5%
Cumulative Soil Production for Week	479 MT	Tons Ahead or Behind Schedule	1,785 MT
Total Soil production for contract		Days ahead or behind schedule	6 days
Since 6 Sep 93	34,947 MT		
Since 6 Aug 93	36,538 MT		
Total Soil production for project	62,825 MT		

MT = metric tons

SORTER 1				17-Mar-94					
SORTER SOIL DENSITY		1.20 tons/m ³		BACKGROUND		0.68 ± 0.02 c/s			
SOIL	CONTAMINATED		CLEAN		TOTAL				
MASS TOTAL	1.2 tons		95.6 tons		96.8 tons				
MAXIMUM/SORT	55.9 kg		55.9 kg						
MINIMUM/SORT	0.7 kg		46.8 kg						
VOLUME IN-GROUND	1.0 yd ³		75.8 yd ³		76.7 yd ³				
WEIGHT RECOVERY (CLEAN/(HOT+CLEAN))		98.7%							
ACTIVITY	PARTICLE		DISPERSED + PARTICLE						
			HOT		CLEAN				
TOTAL	31,263 kBq		10,673 kBq		11,523 kBq				
MAXIMUM/SORT	5,688 kBq		3,062 kBq		20 kBq				
MINIMUM/SORT	3 kBq		0 Bq		-14 kBq				
SPECIFIC ACTIVITY			8,553 Bq/kg		121 Bq/kg				
SORTS									
20-SEC PROCESS PERIODS			1,732		UNEXP PAUSE				
ALL 80 ELEMENTS SORT (MD>0&MND=0)			10		TIME TIME				
NONE (AD=0 & MD=0 & MND>0)			1,344		11:34 None				
SOME (AD>0&0<MD<MNDmax&MND<MNDmax)			378						
UNEXPLAINED RECORDS			0						
0<AD<1kBq & MD>0			1						
AD=0 & MD>0			0						
AD<0 & MD >0			0						
2-SEC COUNT PERIODS			17,320						
2-SEC RECORDS WITH SORTS			877						
2-SEC RECORDS WITHOUT SORTS			16,443						
TOTAL PROCESS RECORDS (2-s SORTS and 20-s PERIODS)			2,609						
NONPROCESSING RECORDS (Test, calibration, etc)			6						
2-SEC SORT DETECTORS									
1 DET	619	70.6%	5 DET	3	0.3%				
2 DET	202	23.0%	6 DET	0	0.0%				
3 DET	45	5.1%	7 DET	0	0.0%				
4 DET	8	0.9%	8 DET	0	0.0%				
AVERAGE TIME BETWEEN 2-SEC SORTS			56.0 sec						
FREQUENCY DISTRIBUTIONS									
1-GATE SORTS		ACT_ND	NUM	SPEC_A	FREQ%	ACT_P	NUM	FREQ%	
DET	SORTS	FREQ%	(Bq)	(#)	(Bq/kg)	(kBq)	(#)		
1	6	1.4%	-14000	1	-250	0.1%	4	53	6.0%
2	29	6.5%	-12000	2	-215	0.1%	8	383	43.7%
3	66	14.9%	-10000	3	-179	0.2%	12	145	16.5%
4	79	17.8%	-8000	1	-143	0.1%	16	82	9.4%
5	93	20.9%	-6000	2	-107	0.1%	20	45	5.1%
6	76	17.1%	-4000	13	-72	0.7%	24	27	3.1%
7	74	16.7%	-2000	37	-36	2.1%	28	20	2.3%
8	21	4.7%	0	89	0	5.1%	32	14	1.6%
TOTAL	444		2000	183	36	10.5%	36	16	1.8%
			4000	221	72	12.7%	40	13	1.5%
			6000	312	107	18.0%	44	8	0.9%
2-GATE SORTS			8000	232	143	13.3%	48	6	0.7%
DET	SORTS	FREQ%	10000	186	179	10.7%	52	4	0.5%
9	9	2.1%	12000	172	215	9.9%	56	3	0.3%
10	49	11.3%	14000	111	250	6.4%	60	6	0.7%
11	72	16.6%	16000	104	286	6.0%	64	1	0.1%
12	92	21.2%	18000	48	322	2.8%	68	2	0.2%
13	88	20.3%	20000	21	358	1.2%	72	6	0.7%
14	72	16.6%	22000	0	394	0.0%	76	0	0.0%
15	51	11.8%	24000	0	429	0.0%	80	4	0.5%
TOTAL	433		26000	0	465	0.0%	84	2	0.2%
			>28000	0	0	0.0%	>84	37	4.2%
			TOTAL	1,738			TOTAL	877	
EVENT TYPES	HPE	885	MPE	28	DISE	871			

SORTER 1



SORTER 2

17-Mar-94

SORTER SOIL DENSITY		1.20 tons/m ³	BACKGROUND		0.79 ± 0.03 c/s
SOIL	CONTAMINATED		CLEAN	TOTAL	
MASS TOTAL	1.1 tons		94.2 tons	95.3 tons	
MAXIMUM/SORT	55.9 kg		55.9 kg		
MINIMUM/SORT	0.7 kg		46.8 kg		
VOLUME IN-GROUND	0.9 yd ³		74.6 yd ³	75.5 yd ³	
WEIGHT RECOVERY (CLEAN/(HOT+CLEAN))		98.9%			

ACTIVITY

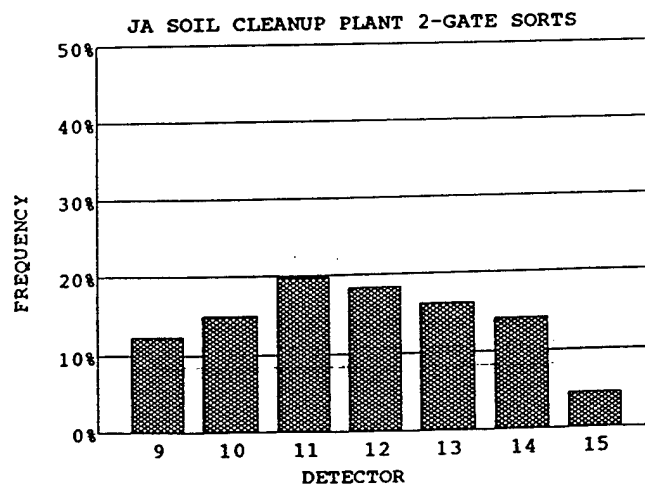
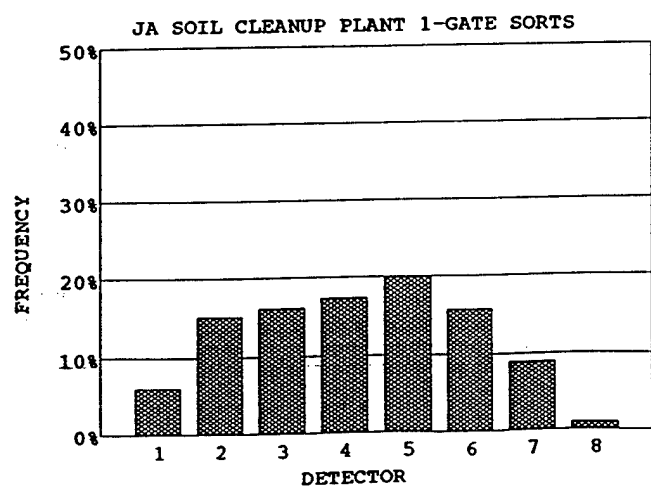
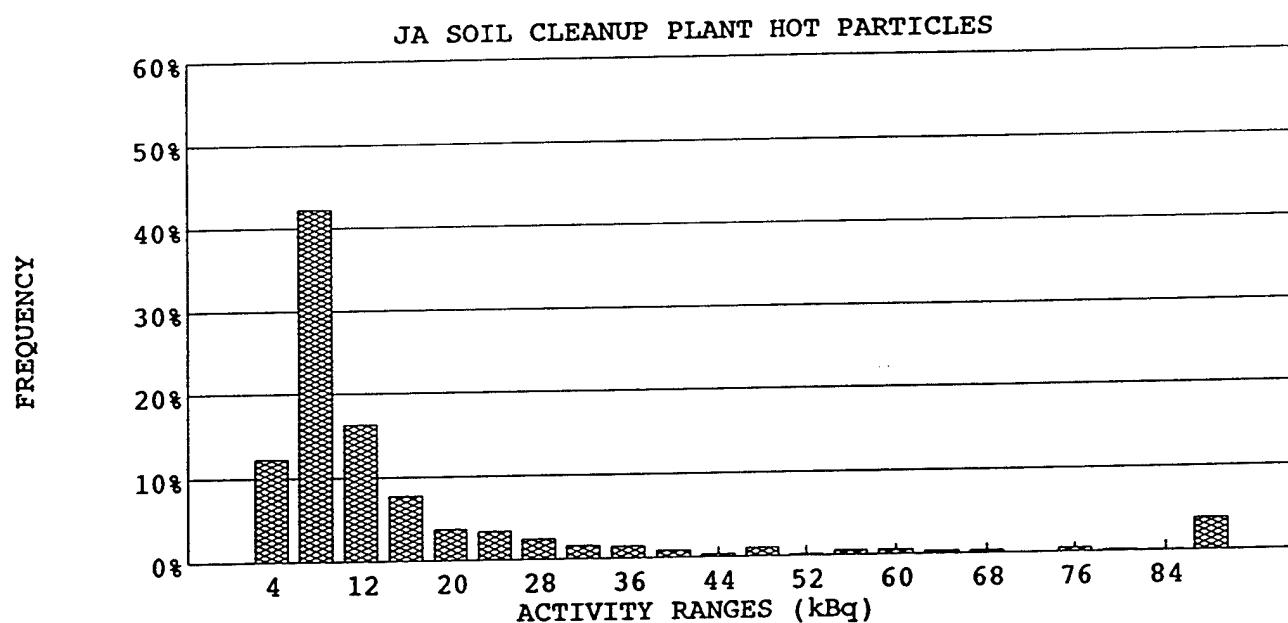
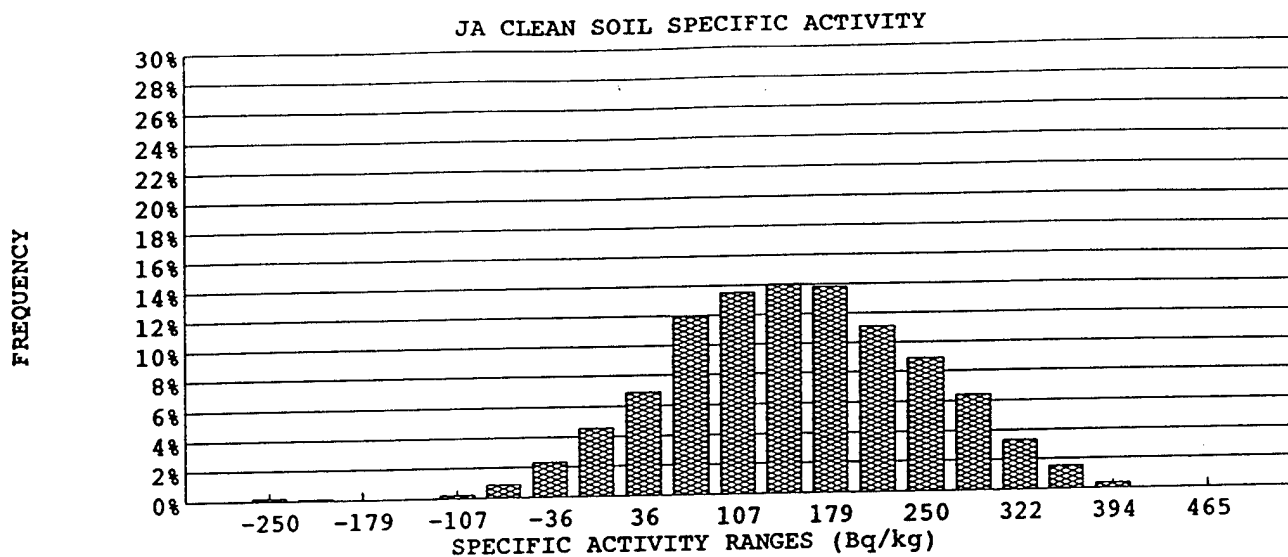
TOTAL MAXIMUM/SORT MINIMUM/SORT SPECIFIC ACTIVITY	PARTICLE		DISPERSED + PARTICLE	
			HOT	CLEAN
	23,096 kBq		7,590 kBq	12,654 kBq
	1,814 kBq		974 kBq	21 kBq
	3 kBq		(364)Bq	-18 kBq
			6,986 Bq/kg	134 Bq/kg

SORTS

20-SEC PROCESS PERIODS		1,704	UNEXP	PAUSE
ALL 80 ELEMENTS SORT (MD>0&MND=0)		6	TIME	TIME
NONE (AD=0 & MD=0 & MND>0)		1,262	06:32	06:44
SOME (AD>0&0<MD<MNDmax&MND<MNDmax)		435	08:10	
UNEXPLAINED RECORDS		1	09:45	
0<AD<1kBq & MD>0		6	09:55	
AD=0 & MD>0		0	11:31	
AD<0 & MD >0		1	12:13	
2-SEC COUNT PERIODS		17,040	13:17	
2-SEC RECORDS WITH SORTS		993		
2-SEC RECORDS WITHOUT SORTS		16,047		
TOTAL PROCESS RECORDS (2-s SORTS and 20-s PERIODS)		2,697		
NONPROCESSING RECORDS (Test, calibration, etc)		6		
2-SEC SORT DETECTORS				
1 DET	723 72.8%	5 DET	2	0.2%
2 DET	223 22.5%	6 DET	0	0.0%
3 DET	37 3.7%	7 DET	0	0.0%
4 DET	8 0.8%	8 DET	0	0.0%
AVERAGE TIME BETWEEN 2-SEC SORTS		47.1 sec		

FREQUENCY DISTRIBUTIONS

1-GATE SORTS			ACT_ND	NUM	SPEC_A	FREQ%	ACT_P	NUM	FREQ%
DET	SORTS	FREQ%	(Bq)	(#)	(Bq/kg)		(kBq)	(#)	
1	30	6.0%	-14000	3	-250	0.2%	4	122	12.3%
2	75	15.1%	-12000	2	-215	0.1%	8	419	42.2%
3	80	16.1%	-10000	0	-179	0.0%	12	162	16.3%
4	86	17.3%	-8000	0	-143	0.0%	16	77	7.8%
5	99	19.9%	-6000	4	-107	0.2%	20	37	3.7%
6	78	15.7%	-4000	15	-72	0.9%	24	34	3.4%
7	44	8.9%	-2000	40	-36	2.3%	28	24	2.4%
8	5	1.0%	0	78	0	4.6%	32	16	1.6%
TOTAL	497		2000	118	36	6.9%	36	14	1.4%
			4000	203	72	11.9%	40	9	0.9%
			6000	231	107	13.5%	44	3	0.3%
2-GATE SORTS			8000	240	143	14.0%	48	10	1.0%
DET	SORTS	FREQ%	10000	236	179	13.8%	52	2	0.2%
9	61	12.3%	12000	189	215	11.1%	56	6	0.6%
10	74	14.9%	14000	152	250	8.9%	60	6	0.6%
11	98	19.8%	16000	110	286	6.4%	64	3	0.3%
12	91	18.3%	18000	57	322	3.3%	68	3	0.3%
13	80	16.1%	20000	26	358	1.5%	72	0	0.0%
14	70	14.1%	22000	6	394	0.4%	76	5	0.5%
15	22	4.4%	24000	0	429	0.0%	80	2	0.2%
TOTAL	496		26000	0	465	0.0%	84	1	0.1%
			>28000	0	0	0.0%	>84	38	3.8%
			TOTAL	1,710			TOTAL	993	
EVENT TYPES	HPE	1,025	MPE	29	DISE	499			



SORTER 1

18-Mar-94

SORTER SOIL DENSITY		1.20 tons/m ³	BACKGROUND		0.68 ± 0.02 c/s
SOIL		CONTAMINATED	CLEAN	TOTAL	
MASS TOTAL		0.8 tons	64.0 tons	64.7 tons	
MAXIMUM/SORT		58.1 kg	55.9 kg		
MINIMUM/SORT		0.7 kg	47.5 kg		
VOLUME IN-GROUND		0.6 yd ³	50.7 yd ³	51.3 yd ³	
WEIGHT RECOVERY (CLEAN/(HOT+CLEAN))		98.8%			

ACTIVITY

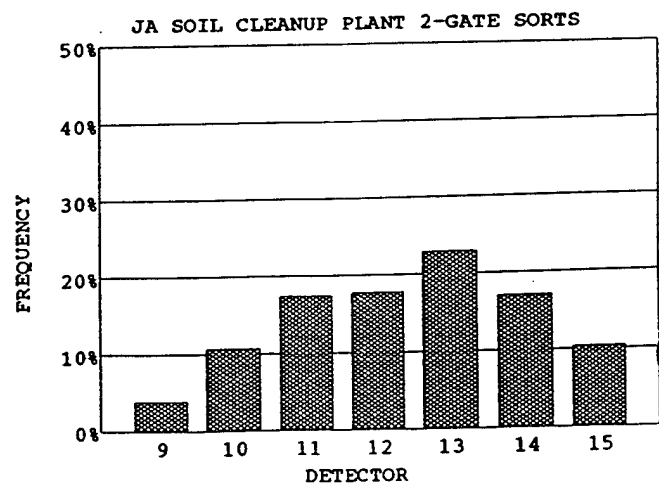
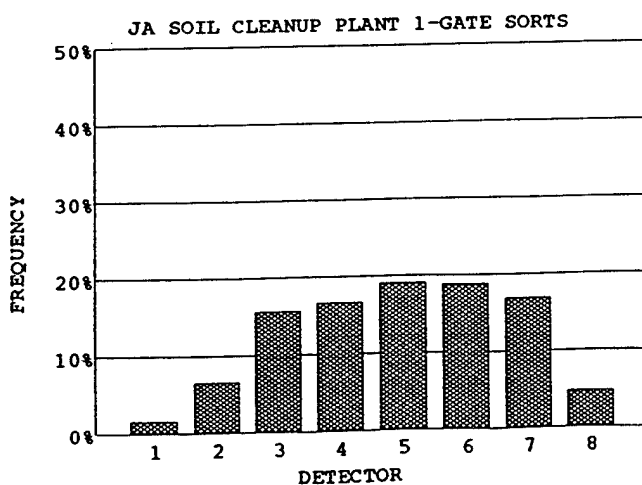
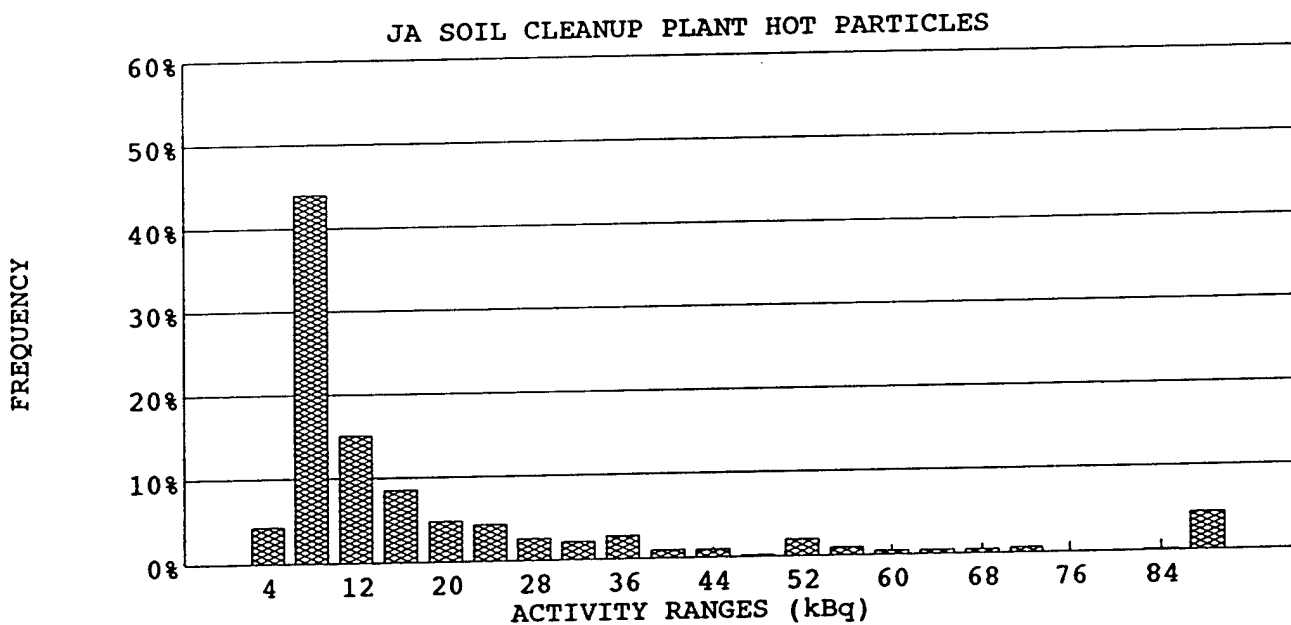
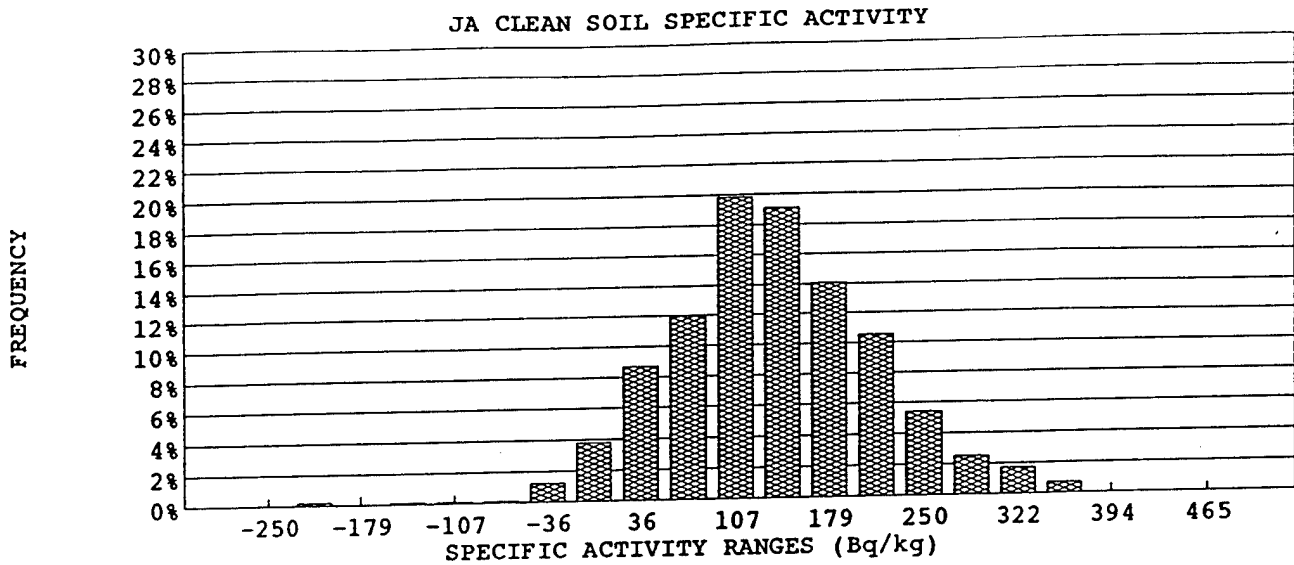
	PARTICLE	DISPERSED + PARTICLE	
		HOT	CLEAN
TOTAL	16,743 kBq	5,453 kBq	7,716 kBq
MAXIMUM/SORT	1,471 kBq	849 kBq	19 kBq
MINIMUM/SORT	3 kBq	0 Bq	-4 kBq
SPECIFIC ACTIVITY		7,230 Bq/kg	121 Bq/kg

SORTS

20-SEC PROCESS PERIODS		1,158	UNEXP	PAUSE
ALL 80 ELEMENTS SORT (MD>0&MND=0)	5		TIME	TIME
NONE (AD=0 & MD=0 & MND>0)	881		None	10:22
SOME (AD>0&0<MD<MNDmax&MND<MNDmax)	272			10:36
UNEXPLAINED RECORDS	0			
0<AD<1kBq & MD>0	0			
AD=0 & MD>0	0			
AD<0 & MD >0	0			
2-SEC COUNT PERIODS		11,580		
2-SEC RECORDS WITH SORTS	629			
2-SEC RECORDS WITHOUT SORTS	10,951			
TOTAL PROCESS RECORDS (2-s SORTS and 20-s PERIODS)		1,787		
NONPROCESSING RECORDS (Test, calibration, etc)		6		
2-SEC SORT DETECTORS				
1 DET	464 73.8%	5 DET	0	0.0%
2 DET	139 22.1%	6 DET	0	0.0%
3 DET	23 3.7%	7 DET	0	0.0%
4 DET	3 0.5%	8 DET	0	0.0%
AVERAGE TIME BETWEEN 2-SEC SORTS	49.9 sec			

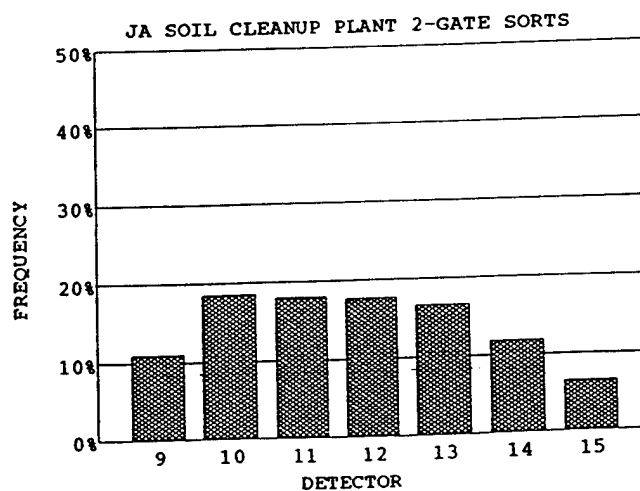
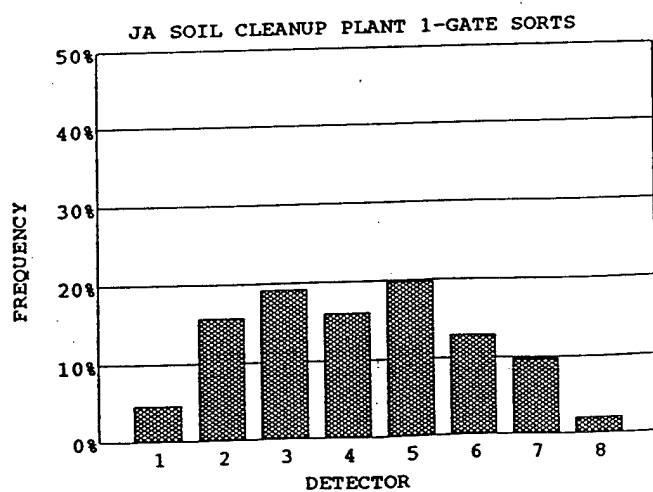
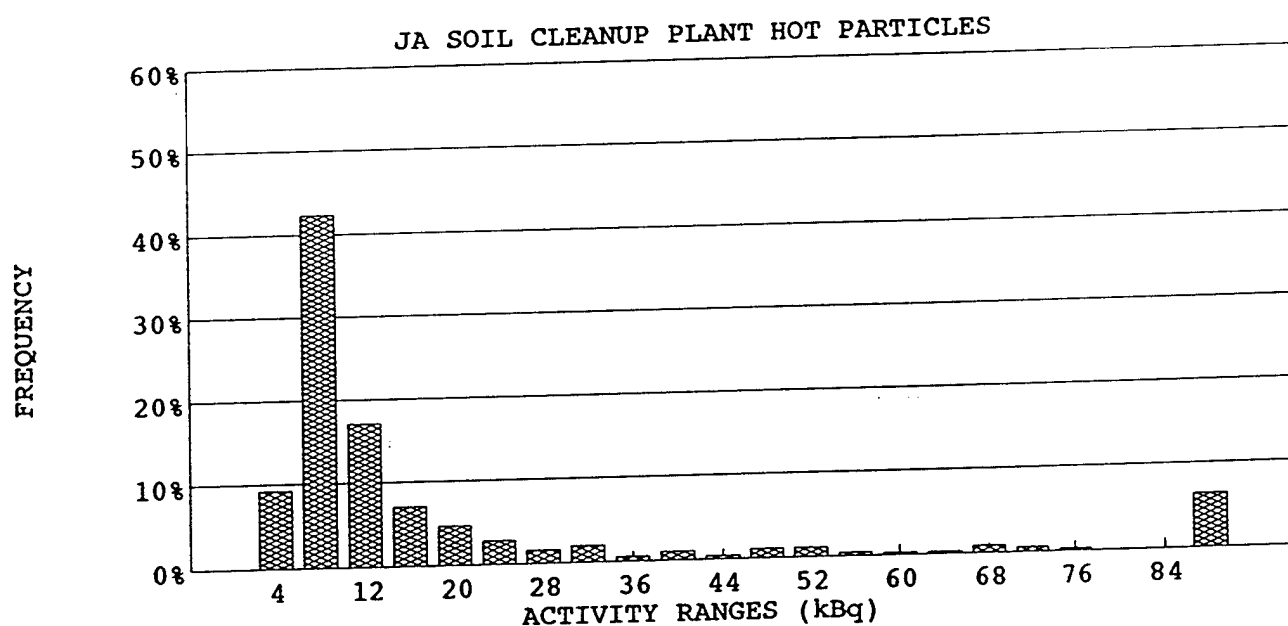
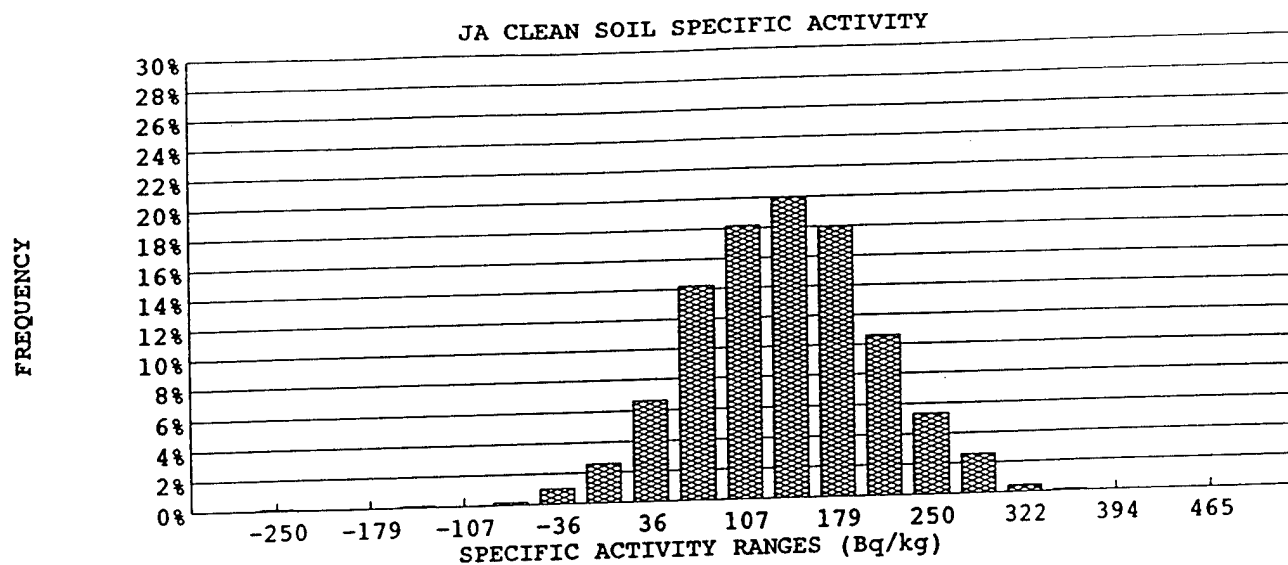
FREQUENCY DISTRIBUTIONS

FREQUENCY DISTRIBUTIONS									
1-GATESORTS			ACT_ND	NUM	SPEC_A	FREQ%	ACT_P	NUM	FREQ%
DET	SORTS	FREQ%	(Bq)	(#)	(Bq/kg)		(kBq)	(#)	
1	5	1.6%	-14000	0	-250	0.0%	4	27	4.3%
2	21	6.6%	-12000	2	-215	0.2%	8	277	44.0%
3	50	15.7%	-10000	0	-179	0.0%	12	95	15.1%
4	53	16.6%	-8000	1	-143	0.1%	16	54	8.6%
5	61	19.1%	-6000	1	-107	0.1%	20	30	4.8%
6	60	18.8%	-4000	1	-72	0.1%	24	27	4.3%
7	54	16.9%	-2000	14	-36	1.2%	28	16	2.5%
8	15	4.7%	0	44	0	3.8%	32	13	2.1%
TOTAL	319		2000	101	36	8.7%	36	17	2.7%
			4000	140	72	12.0%	40	6	1.0%
			6000	231	107	19.8%	44	6	1.0%
2-GATESORTS			8000	222	143	19.1%	48	1	0.2%
DET	SORTS	FREQ%	10000	164	179	14.1%	52	12	1.9%
9	12	3.9%	12000	123	215	10.6%	56	6	1.0%
10	33	10.6%	14000	63	250	5.4%	60	3	0.5%
11	54	17.4%	16000	29	286	2.5%	64	3	0.5%
12	55	17.7%	18000	20	322	1.7%	68	3	0.5%
13	71	22.9%	20000	8	358	0.7%	72	4	0.6%
14	53	17.1%	22000	0	394	0.0%	76	0	0.0%
15	32	10.3%	24000	0	429	0.0%	80	0	0.0%
TOTAL	310		26000	0	465	0.0%	84	1	0.2%
			>28000	0	0	0.0%	>84	28	4.5%
			TOTAL	1,164			TOTAL	629	
EVENT TYPES		HPE	636	MPE	20	DISE	422		



SORTER 2		18-Mar-94			
SORTER SOIL DENSITY		1.20 tons/m ³		BACKGROUND	
SOIL		CONTAMINATED		CLEAN	TOTAL
MASS TOTAL		0.6 tons		64.1 tons	64.7 tons
MAXIMUM/SORT		58.1 kg		55.9 kg	
MINIMUM/SORT		0.7 kg		51.0 kg	
VOLUME IN-GROUND		0.4 yd ³		50.8 yd ³	51.3 yd ³
WEIGHT RECOVERY (CLEAN/(HOT+CLEAN))		99.1%			
ACTIVITY		PARTICLE		DISPERSED + PARTICLE	
TOTAL		18,270 kBq		HOT	CLEAN
MAXIMUM/SORT		692 kBq		5,774 kBq	7,782 kBq
MINIMUM/SORT		2 kBq		464 kBq	18 kBq
SPECIFIC ACTIVITY				0 Bq	-4 kBq
				10,196 Bq/kg	121 Bq/kg
SORTS				1,157	UNEXP PAUSE
20-SEC PROCESS PERIODS					TIME TIME
ALL 80 ELEMENTS SORT (MD>0&MND=0)		1			13:13 10:22
NONE (AD=0 & MD=0 & MND>0)		854			13:22
SOME (AD>0&0<MD<MNDmax&MND<MNDmax)		302			14:13
UNEXPLAINED RECORDS		0			14:22
0<AD<1kBq & MD>0		4			
AD=0 & MD>0		0			
AD<0 & MD >0		0			
2-SEC COUNT PERIODS				11,570	
2-SEC RECORDS WITH SORTS		705			
2-SEC RECORDS WITHOUT SORTS		10,865			
TOTAL PROCESS RECORDS (2-s SORTS and 20-s PERIODS)				1,862	
NONPROCESSING RECORDS (Test, calibration, etc)				4	
2-SEC SORT DETECTORS					
1 DET	512 72.6%	5 DET	0	0.0%	
2 DET	152 21.6%	6 DET	0	0.0%	
3 DET	33 4.7%	7 DET	0	0.0%	
4 DET	8 1.1%	8 DET	0	0.0%	
AVERAGE TIME BETWEEN 2-SEC SORTS		45.2 sec			
FREQUENCY DISTRIBUTIONS					
1-GATE SORTS		ACT_ND	NUM	SPEC_A	FREQ%
DET	SORTS	(Bq)	(#)	(Bq/kg)	
1	16	-14000	1	-250	0.1%
2	55	-12000	0	-215	0.0%
3	67	-10000	0	-179	0.0%
4	56	-8000	1	-143	0.1%
5	69	-6000	0	-107	0.0%
6	45	-4000	2	-72	0.2%
7	34	-2000	12	-36	1.0%
8	7	0	30	0	2.6%
TOTAL	349	2000	77	36	6.6%
		4000	165	72	14.2%
		6000	211	107	18.2%
2-GATE SORTS		8000	232	143	20.0%
DET	SORTS	10000	209	179	18.0%
9	39	12000	123	215	10.6%
10	66	14000	62	250	5.3%
11	64	16000	30	286	2.6%
12	63	18000	5	322	0.4%
13	59	20000	1	358	0.1%
14	42	22000	0	394	0.0%
15	23	24000	0	429	0.0%
TOTAL	356	26000	0	465	0.0%
		>28000	0	0	0.0%
		TOTAL	1,161		
EVENT TYPES		HPE	708	MPE	18
				DISE	83

SORTER 2



WORK HISTORY - JA SOIL CLEANUP PLANT

19-Mar-94

WORK DAY START	05:00 AM	WORK DAY END	15:30 PM
LUNCH START	11:30 AM	TIME LOST DURING LUNCH	0.5 HR

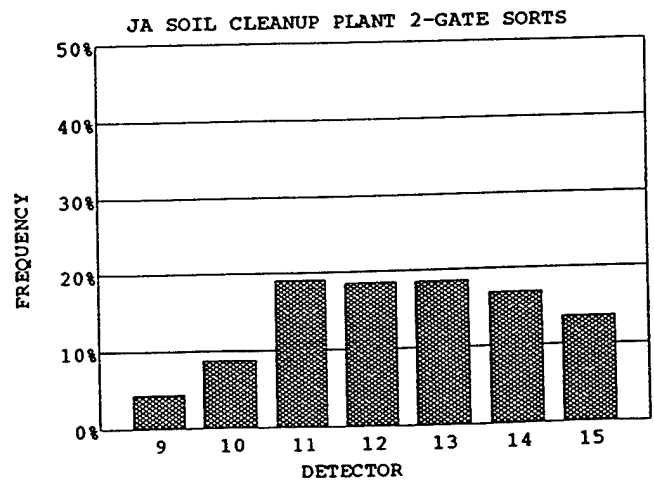
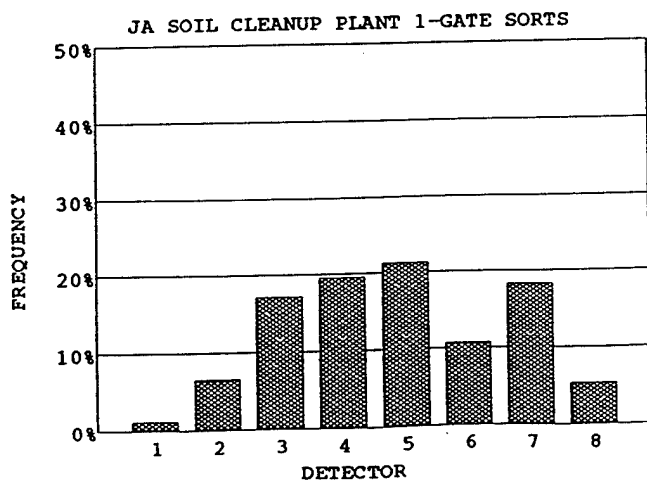
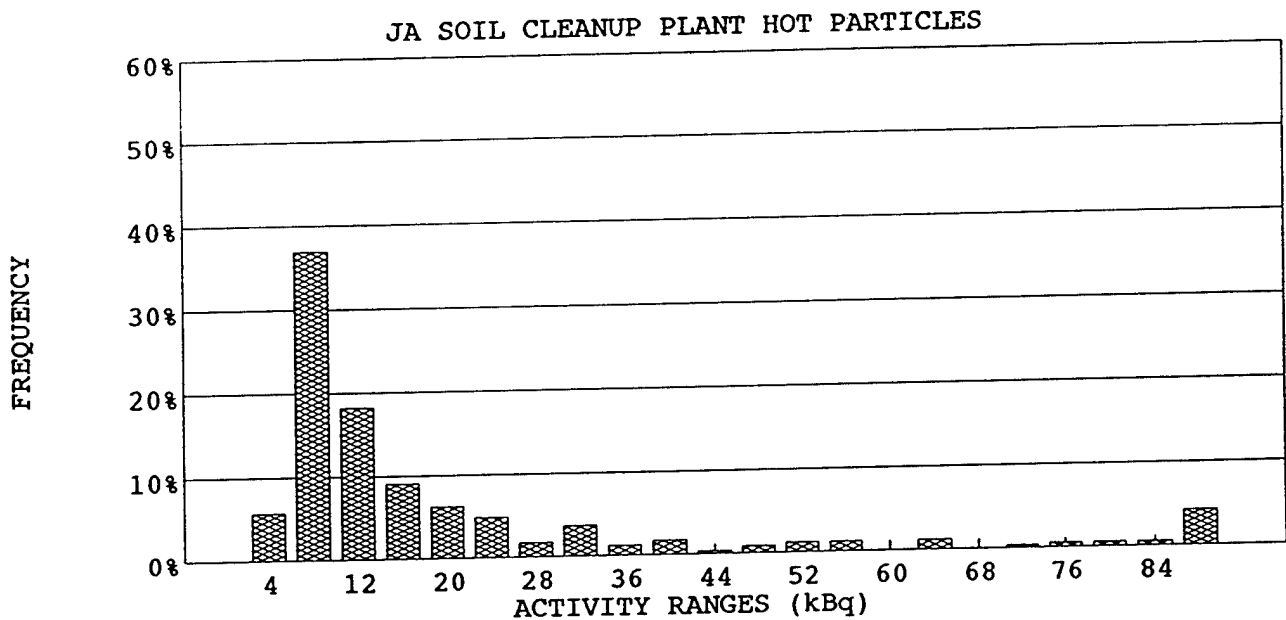
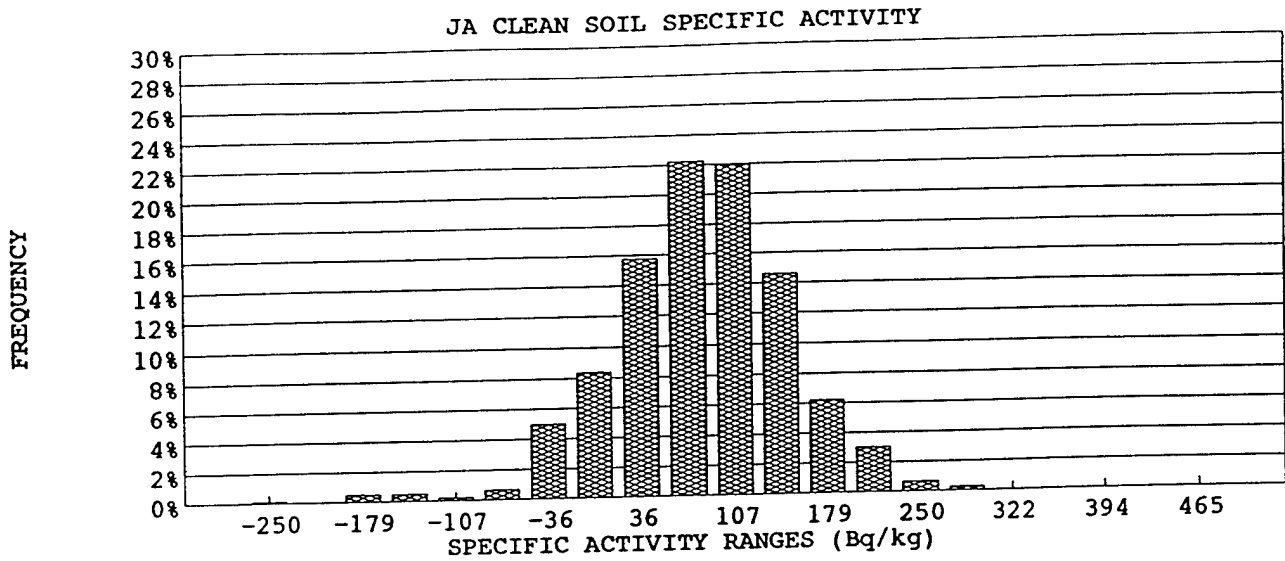
	SORTER 1	SORTER 2	SORTER 3	SORTER 4	TOTAL (sorter hours)
WORK HOURS	10.0 hr	10.0 hr	10.0 hr	10.0 hr	40.0 hr
SORTER AVAILABLE HOURS	6.5 hr	6.5 hr	0.0 hr	0.0 hr	13.0 hr
SORTER START-UP	05:00	05:00	NA	NA	
START SOIL PROCESSING	05:25	05:24	NA	NA	
TIME REQUIRED TO START-UP	0.4 hr	0.4 hr	0.0 hr	0.0 hr	0.8 hr
SORTER SHUT-DOWN	11:30	11:30	NA	NA	
END SOIL PROCESSING	11:16	11:16	NA	NA	
TIME REQUIRED TO SHUT DOWN	0.2 hr	0.2 hr	0.0 hr	0.0 hr	0.4 hr
ACTUAL PROCESS HOURS	5.9 hr	5.9 hr	0.0 hr	0.0 hr	11.7 hr
DOWN-TIME	0.6 hr	0.6 hr	0.0 hr	0.0 hr	1.3 hr
SYSTEM PAUSE	0.0 hr	0.0 hr	0.0 hr	0.0 hr	0.0 hr
SORTER NONAVAILABLE TIME	3.5 hr	3.5 hr	10.0 hr	10.0 hr	27.0 hr
AUTHORIZED DELAY TIME	0.0 hr	0.0 hr	10.0 hr	10.0 hr	20.0 hr
PLANT PERFORMANCE					90.2%
PRODUCTIVITY					29.3%

PRODUCTIVITY

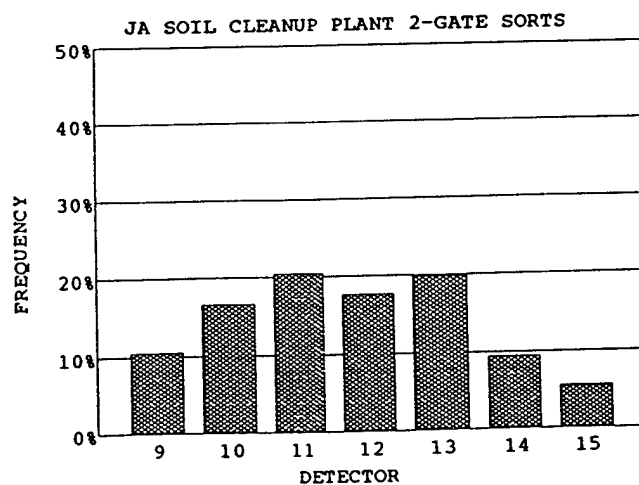
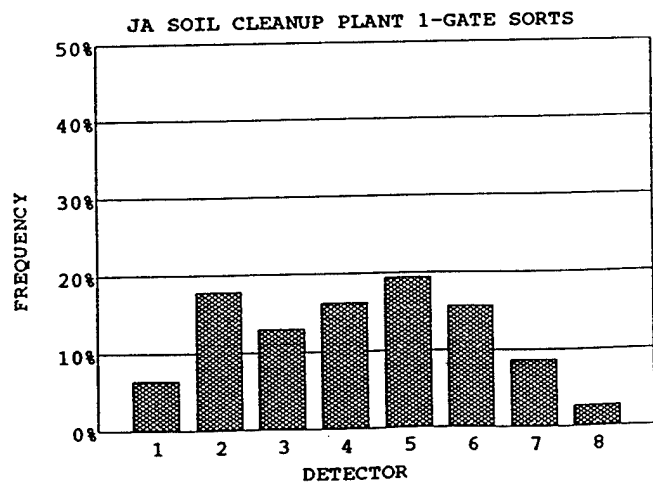
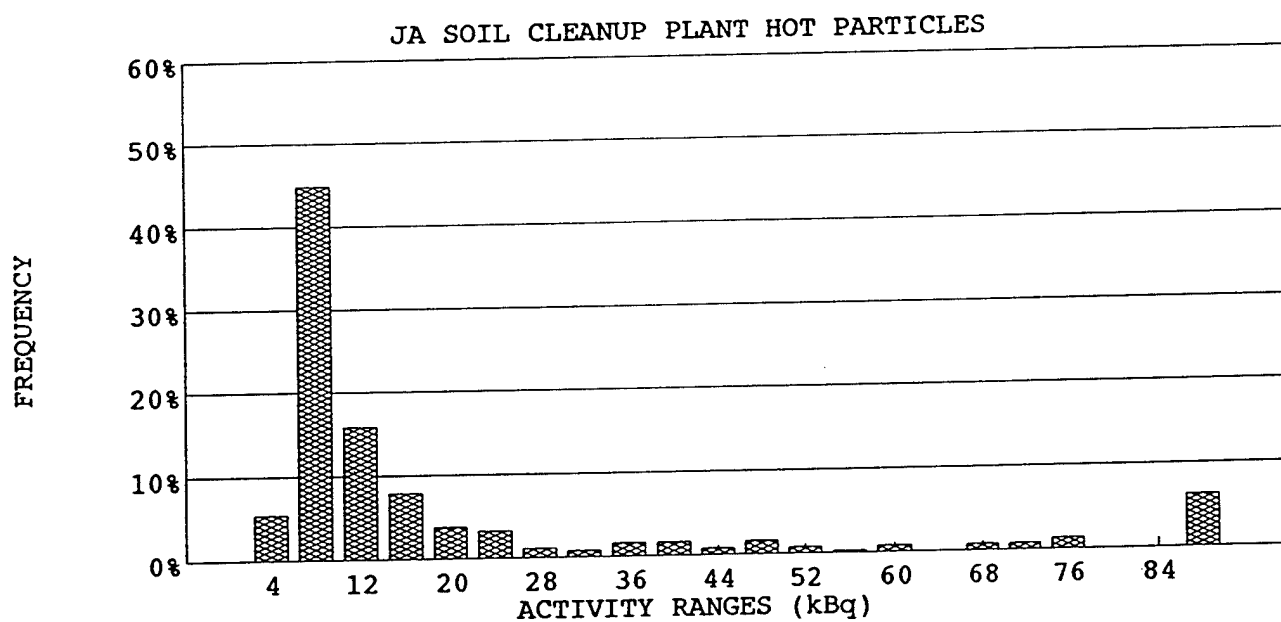
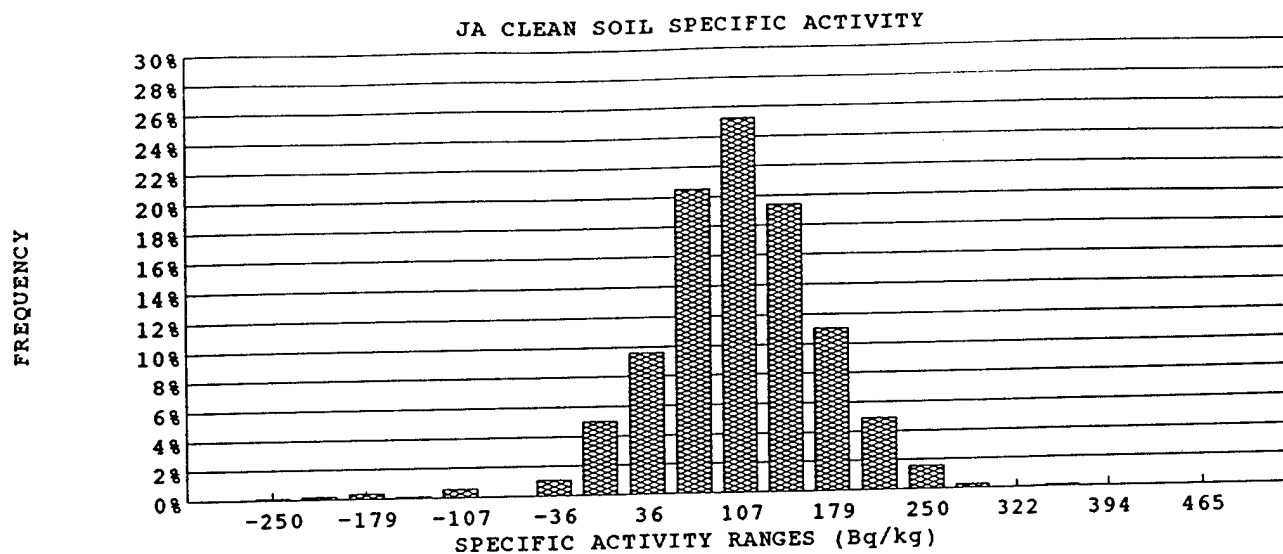
Date	19-Mar-94	Excused Delays for day (sorter-hrs)	20 hr
Contract day (from 6 Sep)	156	Excused delays for contract (sorter-hrs)	2,502 hr
Current Contract week	26	Excused delay days (plant-days)	63 days
		Excused delay months (plant-month)	2.41 months
Soil production for Day	118 MT	Percent of contract completed	36.8%
Cumulative Soil Production for Week	726 MT	Tons Ahead or Behind Schedule	1,803 MT
Total Soil production for contract		Days ahead or behind schedule	6 days
Since 6 Sep 93	35,194 MT		
Since 6 Aug 93	36,785 MT		
Total Soil production for project	63,072 MT		

MT = metric tons

SORTER 1				19-Mar-94				
SORTER SOIL DENSITY		1.20 tons/m ³		BACKGROUND		0.67 ± 0.01 c/s		
SOIL		CONTAMINATED		CLEAN		TOTAL		
MASS TOTAL		0.3 tons		58.7 tons		58.9 tons		
MAXIMUM/SORT		7.0 kg		55.9 kg				
MINIMUM/SORT		0.7 kg		48.9 kg				
VOLUME IN-GROUND		0.2 yd ³		46.5 yd ³		46.7 yd ³		
WEIGHT RECOVERY (CLEAN/(HOT+CLEAN))		99.6%						
ACTIVITY		DISPERSED + PARTICLE						
		PARTICLE		HOT		CLEAN		
TOTAL		10,242 kBq		3,335 kBq		3,863 kBq		
MAXIMUM/SORT		1,481 kBq		878 kBq		15 kBq		
MINIMUM/SORT		3 kBq		0 Bq		-12 kBq		
SPECIFIC ACTIVITY				12,603 Bq/kg		66 Bq/kg		
SORTS						UNEXP PAUSE		
20-SEC PROCESS PERIODS				1,054		TIME TIME		
ALL 80 ELEMENTS SORT (MD>0&MND=0)				0		06:26 None		
NONE (AD=0 & MD=0 & MND>0)				886				
SOME (AD>0&0<MD<MNDmax&MND<MNDmax)				168				
UNEXPLAINED RECORDS				0				
0<AD<1kBq & MD>0				1				
AD=0 & MD>0				0				
AD<0 & MD >0				0				
2-SEC COUNT PERIODS				10,540				
2-SEC RECORDS WITH SORTS				352				
2-SEC RECORDS WITHOUT SORTS				10,188				
TOTAL PROCESS RECORDS (2-s SORTS and 20-s PERIODS)				1,406				
NONPROCESSING RECORDS (Test, calibration, etc)				7				
2-SEC SORT DETECTORS								
1 DET		251	71.3%	5 DET	0	0.0%		
2 DET		77	21.9%	6 DET	0	0.0%		
3 DET		21	6.0%	7 DET	0	0.0%		
4 DET		3	0.9%	8 DET	0	0.0%		
AVERAGE TIME BETWEEN 2-SEC SORTS				84.0 sec				
FREQUENCY DISTRIBUTIONS								
1-GATES SORTS		ACT_ND	NUM	SPEC_A	FREQ%	ACT_P	NUM	FREQ%
DET	SORTS	(Bq)	(#)	(Bq/kg)		(kBq)	(#)	
1	2	-14000	1	-250	0.1%	4	20	5.7%
2	11	-12000	0	-215	0.0%	8	130	36.9%
3	29	-10000	5	-179	0.5%	12	64	18.2%
4	33	-8000	5	-143	0.5%	16	32	9.1%
5	36	-6000	2	-107	0.2%	20	22	6.3%
6	18	-4000	7	-72	0.7%	24	17	4.8%
7	31	-2000	53	-36	5.0%	28	6	1.7%
8	9	0	89	0	8.4%	32	13	3.7%
TOTAL	169	2000	167	36	15.7%	36	4	1.1%
2-GATES SORTS		4000	236	72	22.2%	40	6	1.7%
DET	SORTS	6000	233	107	22.0%	44	1	0.3%
9	8	8000	155	143	14.6%	48	3	0.9%
10	16	10000	66	179	6.2%	52	4	1.1%
11	35	12000	32	215	3.0%	56	4	1.1%
12	34	14000	7	250	0.7%	60	0	0.0%
13	34	16000	3	286	0.3%	64	4	1.1%
14	31	18000	0	322	0.0%	68	0	0.0%
15	25	20000	0	358	0.0%	72	1	0.3%
TOTAL	183	22000	0	394	0.0%	76	2	0.6%
		24000	0	429	0.0%	80	2	0.6%
		26000	0	465	0.0%	84	2	0.6%
		>28000	0	0	0.0%	>84	15	4.3%
TOTAL		1,061				TOTAL	352	
EVENT TYPES		HPE	MPE	13	DISE	0		



SORTER 2				19-Mar-94					
SORTER SOIL DENSITY		1.20 tons/m ³		BACKGROUND		0.75 ± 0.03 c/s			
SOIL		CONTAMINATED		CLEAN		TOTAL			
MASS TOTAL		0.3 tons		58.8 tons		59.1 tons			
MAXIMUM/SORT		4.2 kg		55.9 kg					
MINIMUM/SORT		0.7 kg		51.7 kg					
VOLUME IN-GROUND		0.2 yd ³		46.6 yd ³		46.8 yd ³			
WEIGHT RECOVERY (CLEAN/(HOT+CLEAN))		99.6%							
ACTIVITY		PARTICLE		DISPERSED + PARTICLE					
				HOT		CLEAN			
TOTAL		9,598 kBq		3,050 kBq		5,297 kBq			
MAXIMUM/SORT		425 kBq		262 kBq		18 kBq			
MINIMUM/SORT		3 kBq		0 Bq		-13 kBq			
SPECIFIC ACTIVITY				11,680 Bq/kg		90 Bq/kg			
SORTS									
20-SEC PROCESS PERIODS				1,057		UNEXP PAUSE			
ALL 80 ELEMENTS SORT (MD>0&MND=0)				0		TIME TIME			
NONE (AD=0 & MD=0 & MND>0)				899		08:04 None			
SOME (AD>0&0<MD<MNDmax&MND<MNDmax)				158		08:39			
UNEXPLAINED RECORDS				0					
0<AD<1kBq & MD>0				2					
AD=0 & MD>0				0					
AD<0 & MD >0				0					
2-SEC COUNT PERIODS				10,570					
2-SEC RECORDS WITH SORTS				366					
2-SEC RECORDS WITHOUT SORTS				10,204					
TOTAL PROCESS RECORDS (2-s SORTS and 20-s PERIODS)				1,423					
NONPROCESSING RECORDS (Test, calibration, etc)				5					
2-SEC SORT DETECTORS									
1 DET		248	67.8%	5 DET	5	1.4%			
2 DET		86	23.5%	6 DET	0	0.0%			
3 DET		19	5.2%	7 DET	0	0.0%			
4 DET		8	2.2%	8 DET	0	0.0%			
AVERAGE TIME BETWEEN 2-SEC SORTS				85.2 sec					
FREQUENCY DISTRIBUTIONS									
1-GATESORTS			ACT_ND	NUM	SPEC_A	FREQ%	ACT_P	NUM	FREQ%
DET	SORTS	FREQ%	(Bq)	(#)	(Bq/kg)		(kBq)	(#)	
1	12	6.5%	-14000	1	-250	0.1%	4	20	5.5%
2	33	17.8%	-12000	2	-215	0.2%	8	164	44.8%
3	24	13.0%	-10000	4	-179	0.4%	12	58	15.8%
4	30	16.2%	-8000	1	-143	0.1%	16	29	7.9%
5	36	19.5%	-6000	6	-107	0.6%	20	14	3.8%
6	29	15.7%	-4000	0	-72	0.0%	24	12	3.3%
7	16	8.6%	-2000	11	-36	1.0%	28	4	1.1%
8	5	2.7%	0	53	0	5.0%	32	3	0.8%
TOTAL	185		2000	102	36	9.6%	36	6	1.6%
2-GATESORTS			4000	218	72	20.5%	40	6	1.6%
DET	SORTS	FREQ%	6000	268	107	25.2%	44	3	0.8%
9	19	10.5%	8000	206	143	19.4%	48	6	1.6%
10	30	16.6%	10000	117	179	11.0%	52	3	0.8%
11	37	20.4%	12000	52	215	4.9%	56	1	0.3%
12	32	17.7%	14000	17	250	1.6%	60	3	0.8%
13	36	19.9%	16000	3	286	0.3%	64	0	0.0%
14	17	9.4%	18000	0	322	0.0%	68	3	0.8%
15	10	5.5%	20000	1	358	0.1%	72	3	0.8%
TOTAL	181		22000	0	394	0.0%	76	5	1.4%
			24000	0	429	0.0%	80	0	0.0%
			26000	0	465	0.0%	84	0	0.0%
			>28000	0	0	0.0%	>84	23	6.3%
			TOTAL	1,062			TOTAL	366	
EVENT TYPES		HPE	361	MPE	12	DISE	0		



WORK HISTORY - JA SOIL CLEANUP PLANT

21-Mar-94

WORK DAY START	06:00 AM	WORK DAY END	16:30 PM
LUNCH START	11:00 AM	TIME LOST DURING LUNCH	0.0 HR

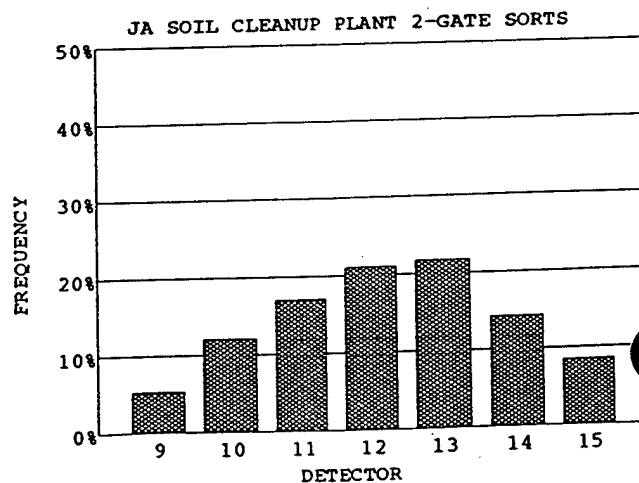
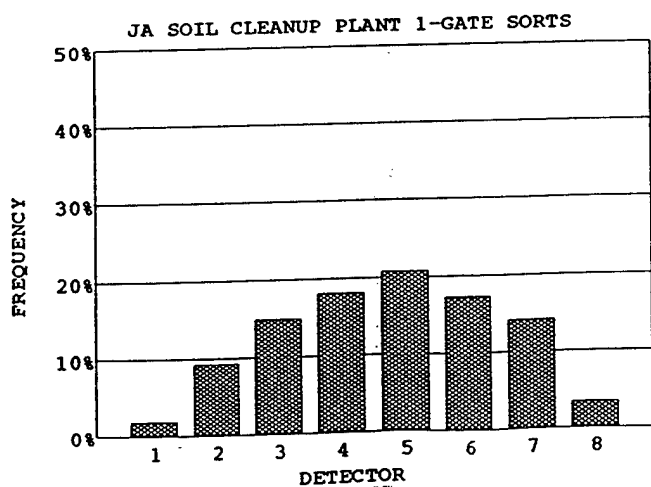
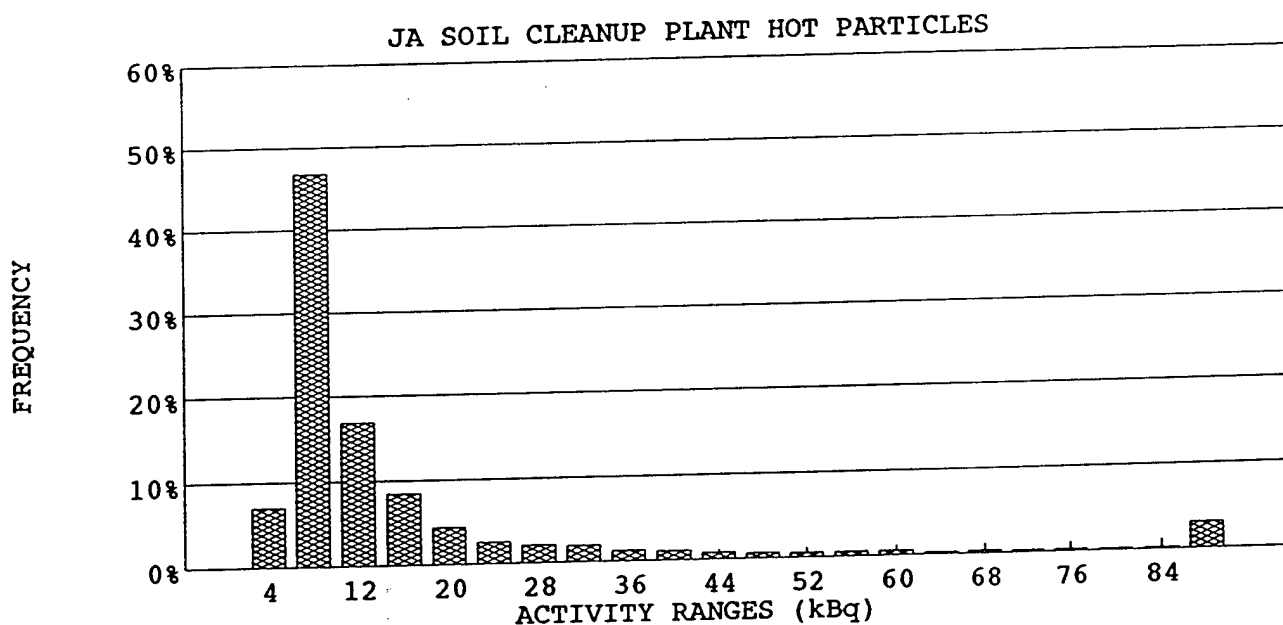
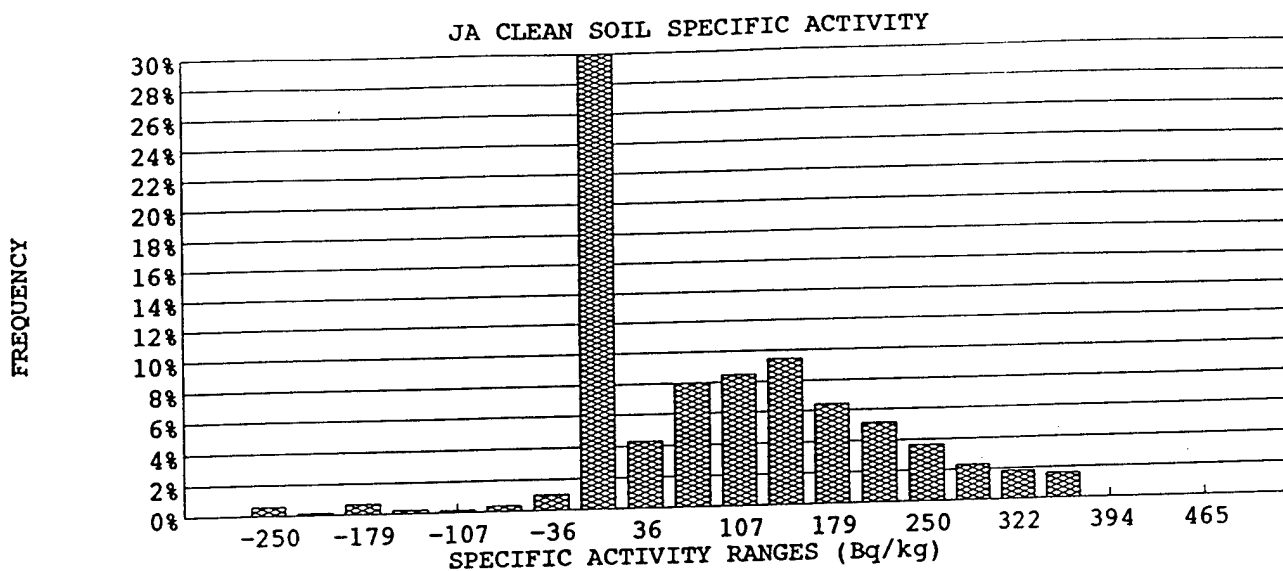
	SORTER 1	SORTER 2	SORTER 3	SORTER 4	TOTAL (sorter hours)
WORK HOURS	10.5 hr	10.5 hr	10.5 hr	10.5 hr	42.0 hr
SORTER AVAILABLE HOURS	10.3 hr	10.3 hr	0.0 hr	0.0 hr	20.5 hr
SORTER START-UP	06:00	06:00	NA	NA	
START SOIL PROCESSING	06:28	06:28	NA	NA	
TIME REQUIRED TO START-UP	0.5 hr	0.5 hr	0.0 hr	0.0 hr	0.9 hr
SORTER SHUT-DOWN	16:15	16:15	NA	NA	
END SOIL PROCESSING	15:57	15:56	NA	NA	
TIME REQUIRED TO SHUT DOWN	0.3 hr	0.3 hr	0.0 hr	0.0 hr	0.6 hr
ACTUAL PROCESS HOURS	7.8 hr	7.8 hr	0.0 hr	0.0 hr	15.5 hr
DOWN-TIME	2.5 hr	2.5 hr	0.0 hr	0.0 hr	5.0 hr
SYSTEM PAUSE	1.8 hr	1.8 hr	0.0 hr	0.0 hr	3.6 hr
SORTER NONAVAILABLE TIME	0.2 hr	0.2 hr	10.0 hr	10.0 hr	20.5 hr
AUTHORIZED DELAY TIME	0.5 hr	0.5 hr	10.0 hr	10.0 hr	21.0 hr
PLANT PERFORMANCE					75.8%
PRODUCTIVITY					37.0%

PRODUCTIVITY

Date	21-Mar-94	Excused Delays for day (sorter-hrs)	21 hr
Contract day (from 6 Sep)	157	Excused delays for contract (sorter-hrs)	2,523 hr
Current Contract week	27	Excused delay days (plant-days)	63 days
		Excused delay months (plant-month)	2.43 months
Soil production for Day	156 MT		
Cumulative Soil Production for Week	156 MT	Percent of contract completed	36.9%
Total Soil production for contract		Tons Ahead or Behind Schedule	1,809 MT
Since 6 Sep 93	35,350 MT	Days ahead or behind schedule	6 days
Since 6 Aug 93	36,941 MT		
Total Soil production for project	63,228 MT		

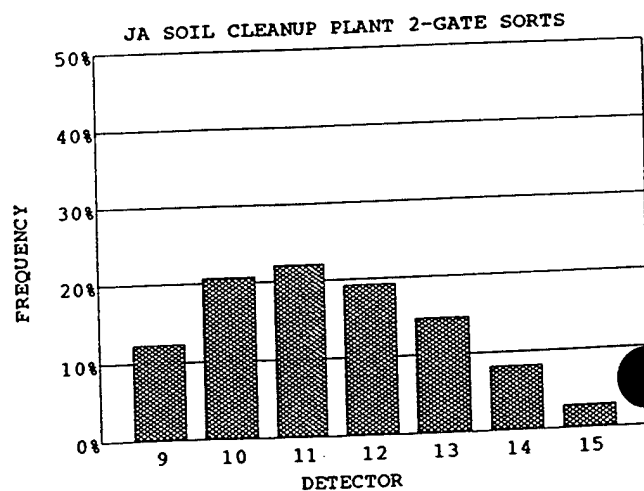
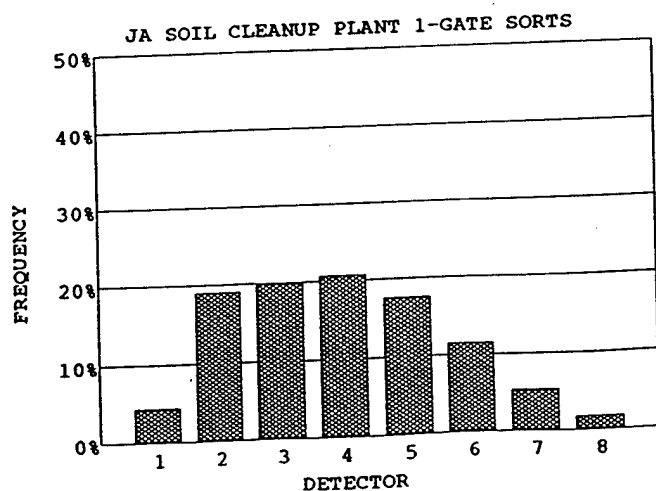
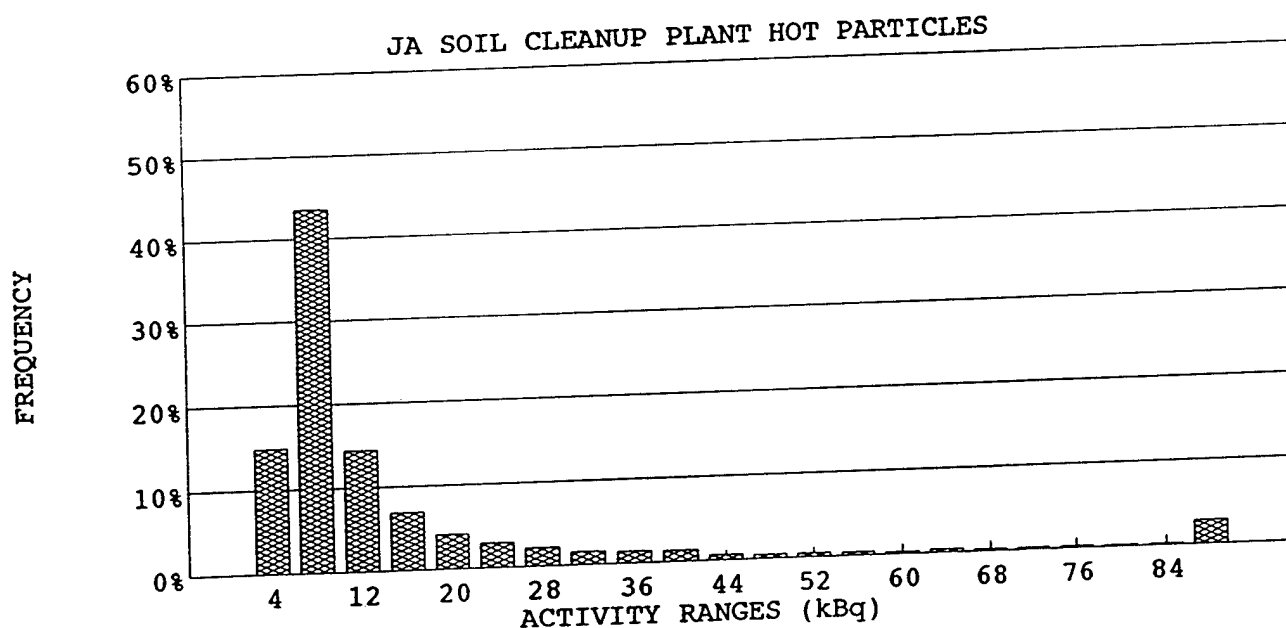
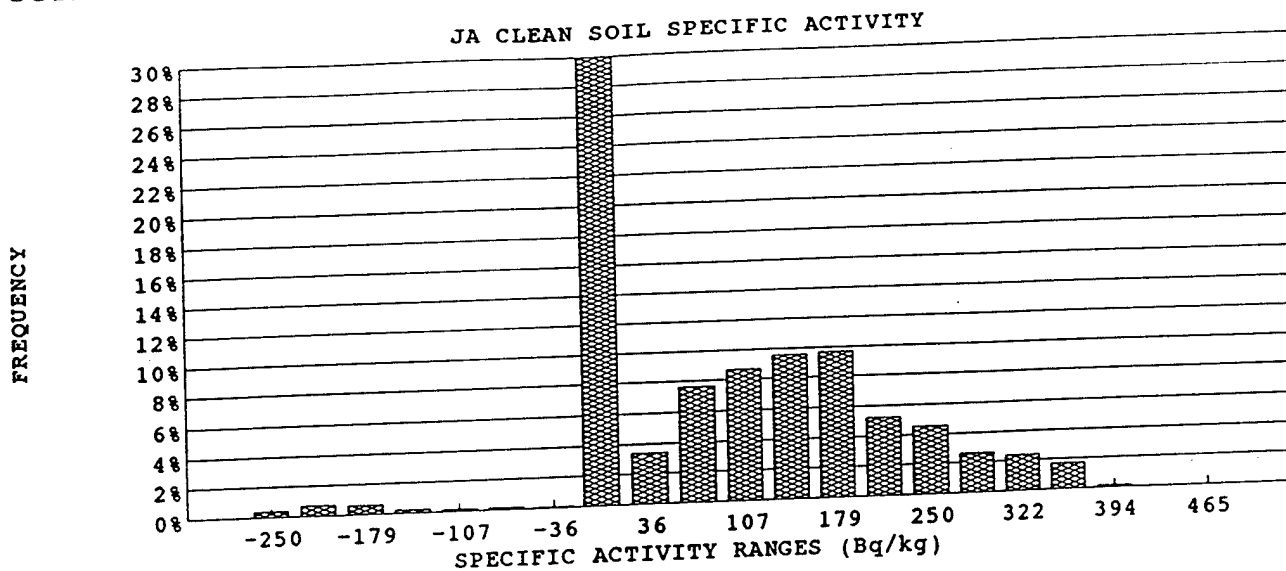
MT = metric tons

SORTER 1				21-Mar-94					
SORTER SOIL DENSITY		1.20 tons/m ³		BACKGROUND		0.67 ± 0.04 c/s			
SOIL		CONTAMINATED		CLEAN		TOTAL			
MASS TOTAL		34.6 tons		43.4 tons		78.0 tons			
MAXIMUM/SORT		58.1 kg		55.9 kg					
MINIMUM/SORT		0.7 kg		46.8 kg					
VOLUME IN-GROUND		27.5 yd ³		34.4 yd ³		61.9 yd ³			
WEIGHT RECOVERY (CLEAN/(HOT+CLEAN))		55.6%							
ACTIVITY		PARTICLE		DISPERSED + PARTICLE					
				HOT		CLEAN			
TOTAL		90,298 kBq		60,686 kBq		5,194 kBq			
MAXIMUM/SORT		4,372 kBq		2,596 kBq		20 kBq			
MINIMUM/SORT		2 kBq		(14,735)Bq		-19 kBq			
SPECIFIC ACTIVITY				1,752 Bq/kg		120 Bq/kg			
SORTS									
20-SEC PROCESS PERIODS				1,396		UNEXP PAUSE			
ALL 80 ELEMENTS SORT (MD>0&MND=0)				613		TIME TIME			
NONE (AD=0 & MD=0 & MND>0)				583		06:47 06:32			
SOME (AD>0&0<MD<MNDmax&MND<MNDmax)				200		07:16 09:58			
UNEXPLAINED RECORDS				0		10:30 11:16			
0<AD<1kBq & MD>0				2		11:34 11:21			
AD=0 & MD>0				1		11:23			
AD<0 & MD >0				1		11:29			
2-SEC COUNT PERIODS				13,960		11:43			
2-SEC RECORDS WITH SORTS				3,984		12:48			
2-SEC RECORDS WITHOUT SORTS				9,976		13:50			
TOTAL PROCESS RECORDS (2-s SORTS and 20-s PERIODS)				5,380		14:25			
NONPROCESSING RECORDS (Test, calibration, etc)				3		14:59			
2-SEC SORT DETECTORS						15:33			
1 DET		2,683	67.3%	5 DET	16	0.4%			
2 DET		966	24.2%	6 DET	0	0.0%			
3 DET		257	6.5%	7 DET	0	0.0%			
4 DET		62	1.6%	8 DET	0	0.0%			
AVERAGE TIME BETWEEN 2-SEC SORTS				10.4 sec					
FREQUENCY DISTRIBUTIONS									
1-GATE SORTS		ACT_ND	NUM	SPEC_A	FREQ%	ACT_P	NUM	FREQ%	
DET	SORTS	FREQ%	(Bq)	(#)	(Bq/kg)	(kBq)	(#)		
1	37	1.9%	-14000	8	-250	0.6%	4	281	7.1%
2	184	9.3%	-12000	2	-215	0.1%	8	1,865	46.8%
3	297	15.0%	-10000	9	-179	0.6%	12	674	16.9%
4	361	18.2%	-8000	3	-143	0.2%	16	337	8.5%
5	413	20.8%	-6000	2	-107	0.1%	20	176	4.4%
6	345	17.4%	-4000	5	-72	0.4%	24	102	2.6%
7	283	14.2%	-2000	14	-36	1.0%	28	83	2.1%
8	66	3.3%	0	642	0	45.9%	32	76	1.9%
TOTAL	1,986		2000	60	36	4.3%	36	49	1.2%
			4000	112	72	8.0%	40	45	1.1%
			6000	118	107	8.4%	44	30	0.8%
2-GATE SORTS			8000	132	143	9.4%	48	25	0.6%
DET	SORTS	FREQ%	10000	90	179	6.4%	52	21	0.5%
9	106	5.3%	12000	72	215	5.1%	56	23	0.6%
10	242	12.1%	14000	51	250	3.6%	60	21	0.5%
11	341	17.1%	16000	32	286	2.3%	64	10	0.3%
12	420	21.0%	18000	25	322	1.8%	68	12	0.3%
13	434	21.7%	20000	22	358	1.6%	72	10	0.3%
14	285	14.3%	22000	0	394	0.0%	76	11	0.3%
15	170	8.5%	24000	0	429	0.0%	80	5	0.1%
TOTAL	1,998		26000	0	465	0.0%	84	6	0.2%
			>28000	0	0	0.0%	>84	122	3.1%
			TOTAL	1,399			TOTAL	3,984	
EVENT TYPES		HPE	3,690	MPE	158	DISE	45725		



SORTER 2				21-Mar-94					
SORTER SOIL DENSITY			1.20 tons/m ³		BACKGROUND		0.76 ± 0.05 c/s		
SOIL			CONTAMINATED		CLEAN		TOTAL		
MASS TOTAL			32.9 tons		45.4 tons		78.3 tons		
MAXIMUM/SORT			58.1 kg		55.9 kg				
MINIMUM/SORT			0.7 kg		35.6 kg				
VOLUME IN-GROUND			26.1 yd ³		36.0 yd ³		62.0 yd ³		
WEIGHT RECOVERY (CLEAN/(HOT+CLEAN))			57.9%						
ACTIVITY			DISPERSED + PARTICLE						
			PARTICLE		HOT		CLEAN		
TOTAL			94,074 kBq		61,482 kBq		6,065 kBq		
MAXIMUM/SORT			8,480 kBq		2,827 kBq		20 kBq		
MINIMUM/SORT			2 kBq		(9,562)Bq		-15 kBq		
SPECIFIC ACTIVITY					1,868 Bq/kg		134 Bq/kg		
SORTS						UNEXP PAUSE			
20-SEC PROCESS PERIODS				1,400		TIME TIME			
ALL 80 ELEMENTS SORT (MD>0&MND=0)				580		06:47 06:32			
NONE (AD=0 & MD=0 & MND>0)				577		11:34 09:59			
SOME (AD>0&0<MD<MNDmax&MND<MNDmax)				243					
UNEXPLAINED RECORDS				0		11:16			
0<AD<1kBq & MD>0				0		11:21			
AD=0 & MD>0				1		11:23			
AD<0 & MD >0				1		11:28			
2-SEC COUNT PERIODS				14,000		11:43			
2-SEC RECORDS WITH SORTS				4,398		11:46			
2-SEC RECORDS WITHOUT SORTS				9,602		12:48			
TOTAL PROCESS RECORDS (2-s SORTS and 20-s PERIODS)				5,798		13:50			
NONPROCESSING RECORDS (Test, calibration, etc)				3		14:25			
2-SEC SORT DETECTORS						14:59			
1 DET		2,888 65.7%	5 DET		23	0.5%	15:33		
2 DET		1,094 24.9%	6 DET		0	0.0%			
3 DET		308 7.0%	7 DET		2	0.0%			
4 DET		85 1.9%	8 DET		0	0.0%			
AVERAGE TIME BETWEEN 2-SEC SORTS				9.7 sec					
FREQUENCY DISTRIBUTIONS									
1-GATESORTS			ACT_ND	NUM	SPEC_A	FREQ%	ACT_P	NUM	FREQ%
DET	SORTS	FREQ%	(Bq)	(#)	(Bq/kg)		(kBq)	(#)	
1	95	4.4%	-14000	6	-250	0.4%	4	655	14.9%
2	415	19.0%	-12000	10	-215	0.7%	8	1,915	43.5%
3	433	19.9%	-10000	9	-179	0.6%	12	633	14.4%
4	451	20.7%	-8000	3	-143	0.2%	16	303	6.9%
5	383	17.6%	-6000	2	-107	0.1%	20	181	4.1%
6	250	11.5%	-4000	2	-72	0.1%	24	131	3.0%
7	115	5.3%	-2000	1	-36	0.1%	28	97	2.2%
8	37	1.7%	0	591	0	42.1%	32	68	1.5%
TOTAL			2000	47	36	3.3%	36	62	1.4%
			4000	107	72	7.6%	40	57	1.3%
2-GATESORTS			6000	122	107	8.7%	44	28	0.6%
DET	SORTS	FREQ%	8000	134	143	9.6%	48	21	0.5%
9	273	12.3%	10000	136	179	9.7%	52	22	0.5%
10	459	20.7%	12000	73	215	5.2%	56	18	0.4%
11	491	22.1%	14000	64	250	4.6%	60	13	0.3%
12	427	19.2%	16000	37	286	2.6%	64	19	0.4%
13	326	14.7%	18000	33	322	2.4%	68	13	0.3%
14	180	8.1%	20000	24	358	1.7%	72	10	0.2%
15	63	2.8%	22000	2	394	0.1%	76	11	0.3%
TOTAL			24000	0	429	0.0%	80	8	0.2%
			26000	0	465	0.0%	84	8	0.2%
			>28000	0	0	0.0%	>84	125	2.8%
			TOTAL	1,403			TOTAL	4,398	
EVENT TYPES		HPE	4,018	MPE	164	DISE	42923		

SORTER 2



WORK HISTORY - JA SOIL CLEANUP PLANT

22-Mar-94

WORK DAY START	06:00 AM	WORK DAY END	16:30 PM		
LUNCH START	11:00 AM	TIME LOST DURING LUNCH	0.0 HR		
	SORTER 1	SORTER 2	SORTER 3	SORTER 4	TOTAL (sorter hours)
WORK HOURS	10.5 hr	10.5 hr	10.5 hr	10.5 hr	42.0 hr
SORTER AVAILABLE HOURS	10.2 hr	10.2 hr	0.0 hr	0.0 hr	20.3 hr
SORTER START-UP	06:00	06:00	NA	NA	
START SOIL PROCESSING	06:21	06:20	NA	NA	
TIME REQUIRED TO START-UP	0.4 hr	0.3 hr	0.0 hr	0.0 hr	0.7 hr
SORTER SHUT-DOWN	16:10	16:10	NA	NA	
END SOIL PROCESSING	16:01	16:02	NA	NA	
TIME REQUIRED TO SHUT DOWN	0.1 hr	0.1 hr	0.0 hr	0.0 hr	0.3 hr
ACTUAL PROCESS HOURS	9.3 hr	9.3 hr	0.0 hr	0.0 hr	18.6 hr
DOWN-TIME	0.9 hr	0.8 hr	0.0 hr	0.0 hr	1.7 hr
SYSTEM PAUSE	0.4 hr	0.4 hr	0.0 hr	0.0 hr	0.8 hr
SORTER NONAVAILABLE TIME	0.3 hr	0.3 hr	10.0 hr	10.0 hr	20.7 hr
AUTHORIZED DELAY TIME	0.0 hr	0.0 hr	10.0 hr	10.0 hr	20.0 hr
PLANT PERFORMANCE					91.6%
PRODUCTIVITY					44.4%

PRODUCTIVITY

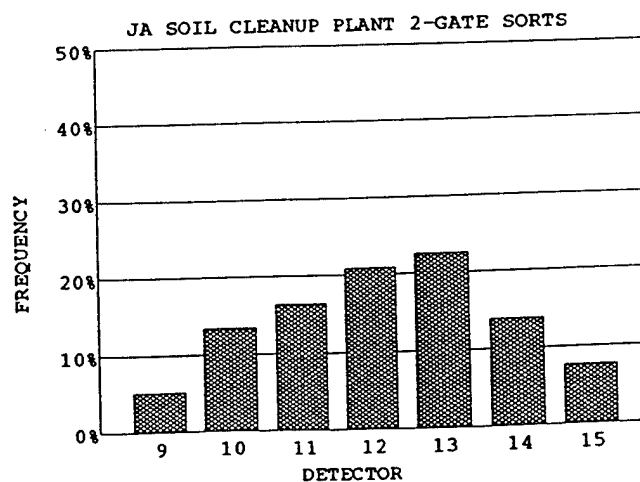
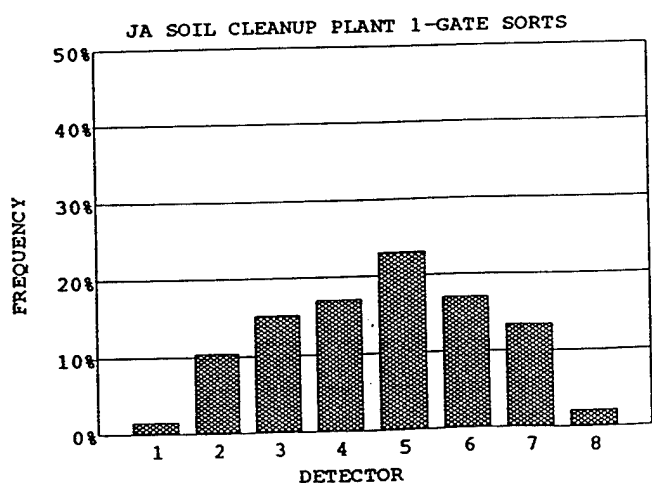
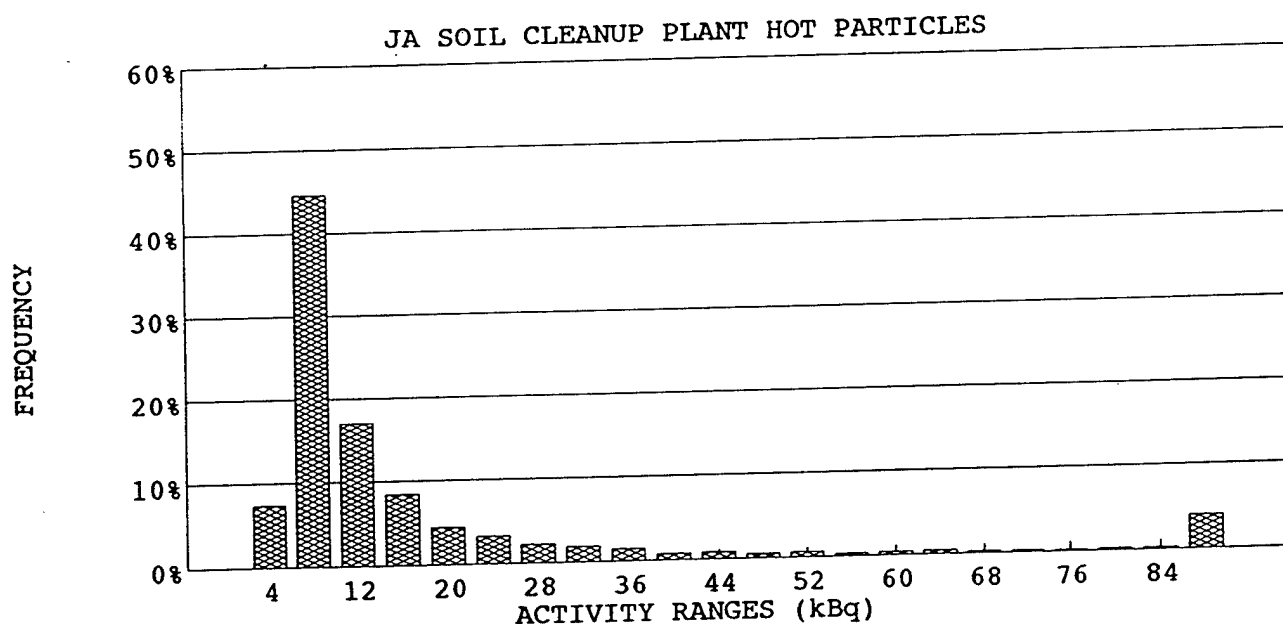
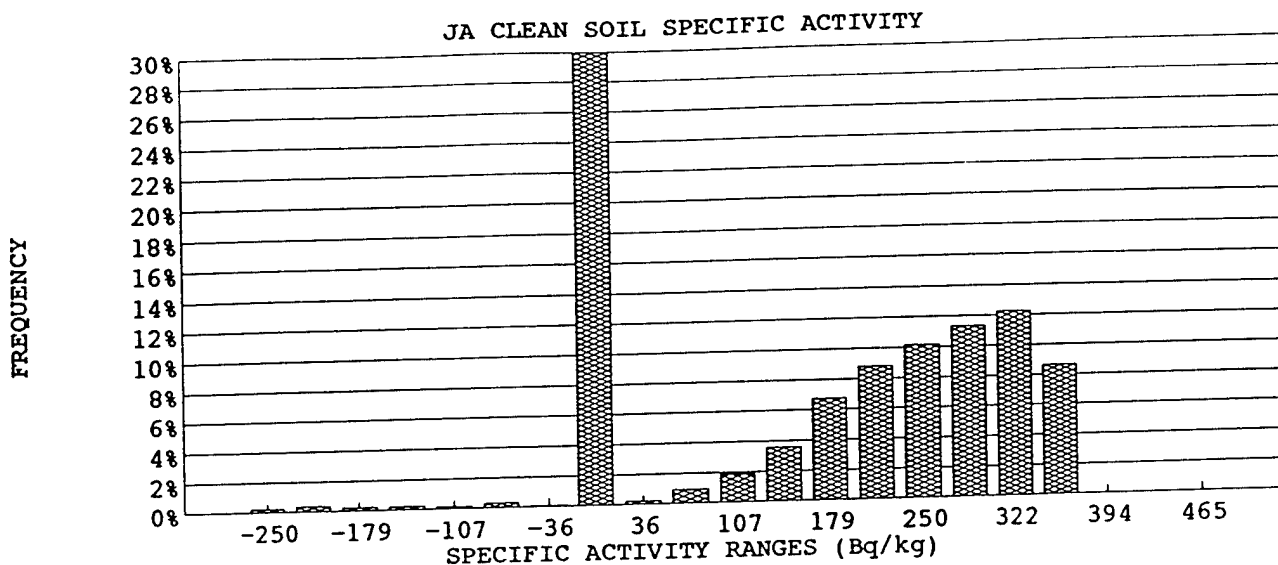
Date	22-Mar-94	Excused Delays for day (sorter-hrs)	20 hr
Contract day (from 6 Sep)	158	Excused delays for contract (sorter-hrs)	2,543 hr
Current Contract week	27	Excused delay days (plant-days)	64 days
		Excused delay months (plant-month)	2.45 months
Soil production for Day	187 MT		
Cumulative Soil Production for Week	344 MT	Percent of contract completed	37.1%
Total Soil production for contract		Tons Ahead or Behind Schedule	1,838 MT
Since 6 Sep 93	35,538 MT	Days ahead or behind schedule	6 days
Since 6 Aug 93	37,129 MT		
Total Soil production for project	63,416 MT		

MT = metric tons

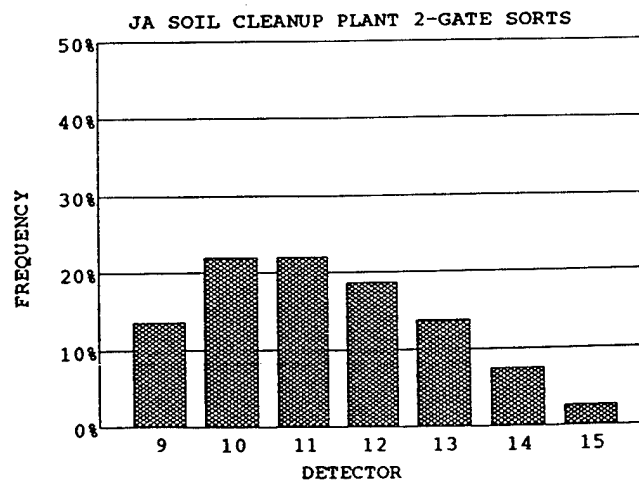
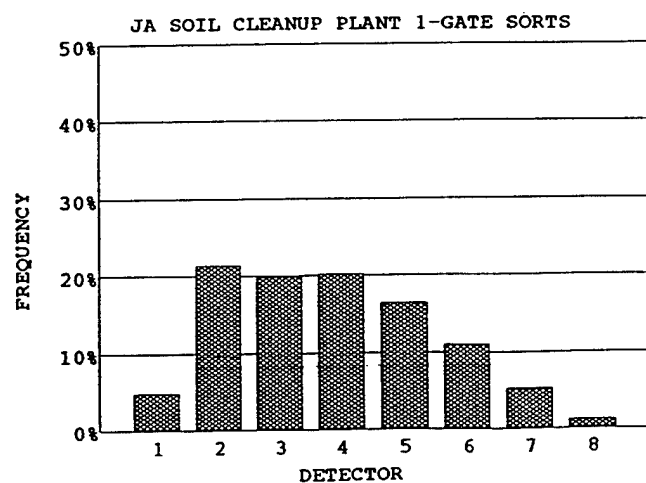
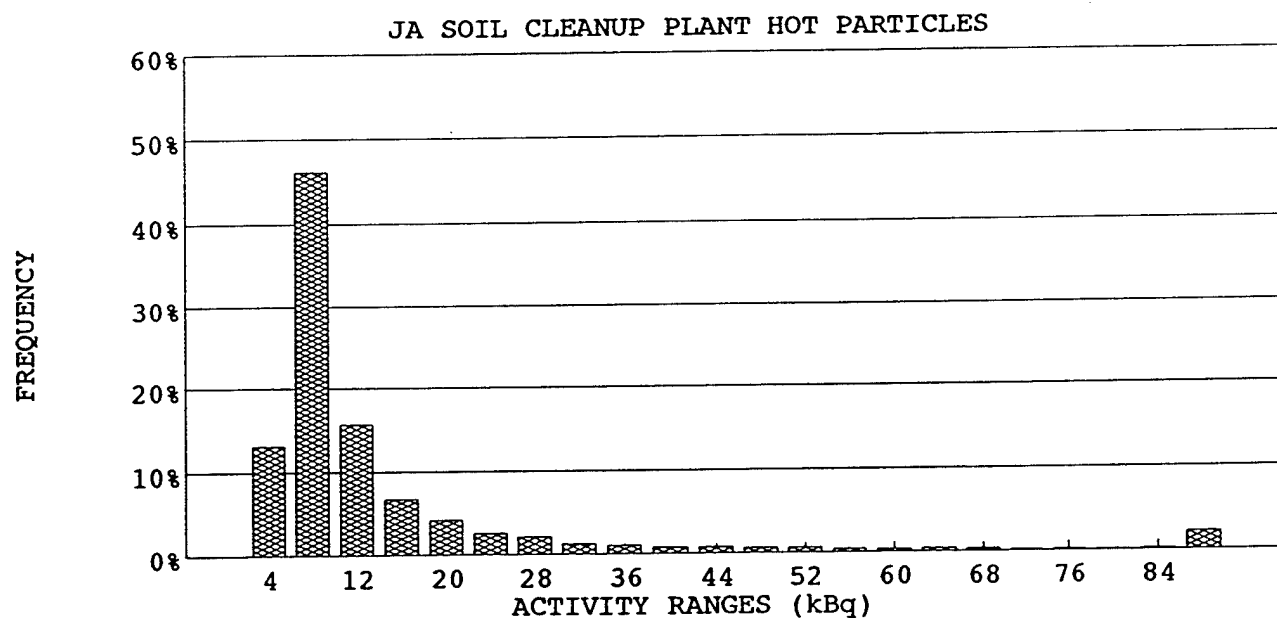
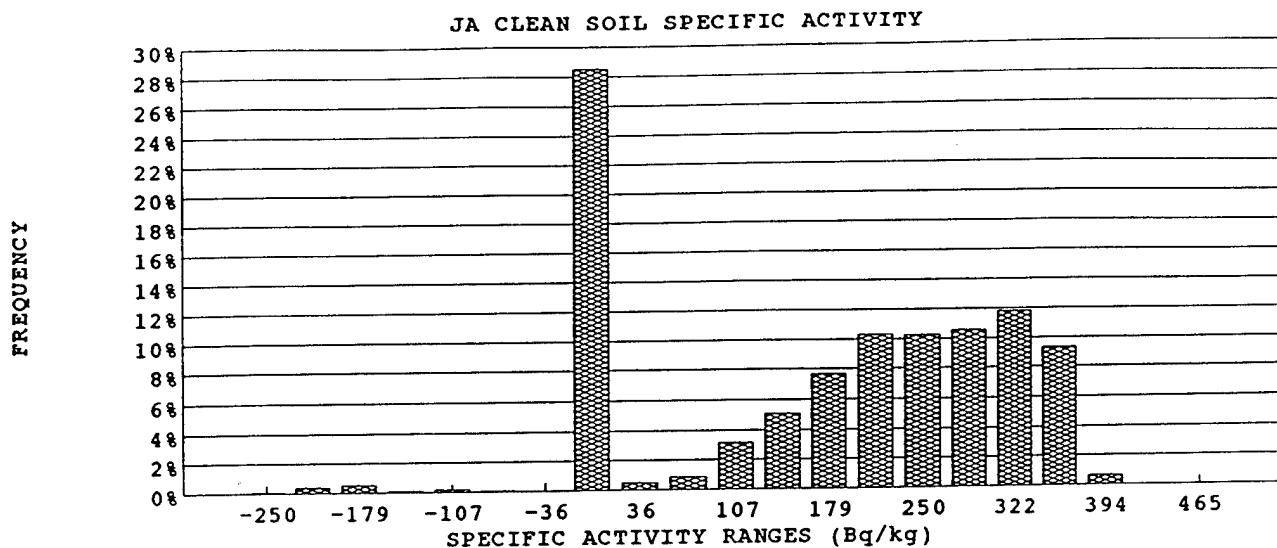
SORTER 1				22-Mar-94				
SORTER SOIL DENSITY		1.20 tons/m ³		BACKGROUND		0.67 ± 0.03 c/s		
SOIL		CONTAMINATED		CLEAN		TOTAL		
MASS TOTAL		32.5 tons		61.0 tons		93.5 tons		
MAXIMUM/SORT		58.1 kg		55.9 kg				
MINIMUM/SORT		0.7 kg		40.5 kg				
VOLUME IN-GROUND		25.8 yd ³		48.3 yd ³		74.1 yd ³		
WEIGHT RECOVERY (CLEAN/(HOT+CLEAN))		65.2%						
ACTIVITY		PARTICLE		DISPERSED + PARTICLE				
				HOT		CLEAN		
TOTAL		114,176 kBq		62,969 kBq		14,369 kBq		
MAXIMUM/SORT		5,350 kBq		3,273 kBq		20 kBq		
MINIMUM/SORT		2 kBq		(17,288)Bq		-16 kBq		
SPECIFIC ACTIVITY				1,937 Bq/kg		236 Bq/kg		
SORTS				1,672		UNEXP PAUSE		
20-SEC PROCESS PERIODS						TIME TIME		
ALL 80 ELEMENTS SORT (MD>0&MND=0)				561		08:33 08:30		
NONE (AD=0 & MD=0 & MND>0)				593		08:35 08:33		
SOME (AD>0&0<MD<MNDmax&MND<MNDmax)				518		09:06 09:02		
UNEXPLAINED RECORDS				0		09:36		
0<AD<1kBq & MD>0				0		10:16		
AD=0 & MD>0				1		12:32		
AD<0 & MD >0				2				
2-SEC COUNT PERIODS				16,720				
2-SEC RECORDS WITH SORTS				3,935				
2-SEC RECORDS WITHOUT SORTS				12,785				
TOTAL PROCESS RECORDS (2-s SORTS and 20-s PERIODS)				5,607				
NONPROCESSING RECORDS (Test, calibration, etc)				6				
2-SEC SORT DETECTORS								
1 DET		2,690	68.4%	5 DET	6	0.2%		
2 DET		939	23.9%	6 DET	0	0.0%		
3 DET		254	6.5%	7 DET	0	0.0%		
4 DET		46	1.2%	8 DET	0	0.0%		
AVERAGE TIME BETWEEN 2-SEC SORTS				12.4 sec				
FREQUENCY DISTRIBUTIONS								
1-GATESORTS		ACT_ND	NUM	SPEC_A	FREQ%	ACT_P	NUM	FREQ%
		(Bq)	(#)	(Bq/kg)		(kBq)	(#)	
DET	SORTS	FREQ%						
1	29	1.5%	-14000	4	-250 0.2%	4	291	7.4%
2	207	10.4%	-12000	6	-215 0.4%	8	1,757	44.7%
3	301	15.2%	-10000	4	-179 0.2%	12	666	16.9%
4	339	17.1%	-8000	4	-143 0.2%	16	335	8.5%
5	457	23.1%	-6000	2	-107 0.1%	20	177	4.5%
6	339	17.1%	-4000	5	-72 0.3%	24	131	3.3%
7	267	13.5%	-2000	1	-36 0.1%	28	87	2.2%
8	42	2.1%	0	569	0 33.9%	32	73	1.9%
TOTAL		1,981	2000	4	36 0.2%	36	57	1.4%
			4000	15	72 0.9%	40	31	0.8%
			6000	31	107 1.8%	44	33	0.8%
2-GATESORTS			8000	60	143 3.6%	48	23	0.6%
DET	SORTS	FREQ%	10000	113	179 6.7%	52	25	0.6%
9	100	5.1%	12000	148	215 8.8%	56	13	0.3%
10	263	13.5%	14000	171	250 10.2%	60	14	0.4%
11	321	16.4%	16000	190	286 11.3%	64	19	0.5%
12	407	20.8%	18000	206	322 12.3%	68	10	0.3%
13	441	22.6%	20000	145	358 8.6%	72	9	0.2%
14	272	13.9%	22000	0	394 0.0%	76	7	0.2%
15	150	7.7%	24000	0	429 0.0%	80	9	0.2%
TOTAL		1,954	26000	0	465 0.0%	84	11	0.3%
			>28000	0	0 0.0%	>84	157	4.0%
			TOTAL	1,678		TOTAL	3,935	
EVENT TYPES		HPE	3,696	MPE	148	DISE	42682	

SORTER 1

22-Mar-94



SORTER 2				22-Mar-94					
SORTER SOIL DENSITY			1.20 tons/m ³	BACKGROUND		0.77 ± 0.04 c/s			
SOIL		CONTAMINATED		CLEAN		TOTAL			
MASS TOTAL		27.9 tons		66.0 tons		94.0 tons			
MAXIMUM/SORT		58.1 kg		55.9 kg					
MINIMUM/SORT		0.7 kg		41.2 kg					
VOLUME IN-GROUND		22.1 yd ³		52.3 yd ³		74.5 yd ³			
WEIGHT RECOVERY (CLEAN/(HOT+CLEAN))		70.3%							
ACTIVITY		PARTICLE		DISPERSED + PARTICLE					
				HOT		CLEAN			
TOTAL		74,057 kBq		46,837 kBq		15,208 kBq			
MAXIMUM/SORT		2,681 kBq		1,506 kBq		20 kBq			
MINIMUM/SORT		2 kBq		(2,688)Bq		-15 kBq			
SPECIFIC ACTIVITY				1,677 Bq/kg		230 Bq/kg			
SORTS				1,681		UNEXP PAUSE			
20-SEC PROCESS PERIODS						TIME TIME			
ALL 80 ELEMENTS SORT (MD>0&MND=0)		475				08:33 08:30			
NONE (AD=0 & MD=0 & MND>0)		607				09:06 09:02			
SOME (AD>0&0<MD<MNDmax&MND<MNDmax)		599				15:20 09:36			
UNEXPLAINED RECORDS		0				16:02 10:16			
0<AD<1kBq & MD>0		2				12:32			
AD=0 & MD>0		0							
AD<0 & MD >0		2							
2-SEC COUNT PERIODS				16,810					
2-SEC RECORDS WITH SORTS		4,179							
2-SEC RECORDS WITHOUT SORTS		12,631							
TOTAL PROCESS RECORDS (2-s SORTS and 20-s PERIODS)				5,860					
NONPROCESSING RECORDS (Test, calibration, etc)				1					
2-SEC SORT DETECTORS									
1 DET		2,888	69.1%	5 DET	15	0.4%			
2 DET		976	23.4%	6 DET	0	0.0%			
3 DET		242	5.8%	7 DET	0	0.0%			
4 DET		58	1.4%	8 DET	0	0.0%			
AVERAGE TIME BETWEEN 2-SEC SORTS		11.6 sec							
FREQUENCY DISTRIBUTIONS									
1-GATE SORTS			ACT_ND	NUM	SPEC_A	FREQ%	ACT_P	NUM	FREQ%
			(Bq)	(#)	(Bq/kg)		(kBq)	(#)	
DET	SORTS	FREQ%							
1	100	4.8%	-14000	1	-250	0.1%	4	547	13.1%
2	443	21.4%	-12000	7	-215	0.4%	8	1,928	46.1%
3	411	19.8%	-10000	9	-179	0.5%	12	655	15.7%
4	418	20.2%	-8000	2	-143	0.1%	16	283	6.8%
5	341	16.4%	-6000	3	-107	0.2%	20	176	4.2%
6	227	10.9%	-4000	1	-72	0.1%	24	107	2.6%
7	109	5.3%	-2000	0	-36	0.0%	28	88	2.1%
8	25	1.2%	0	480	0	28.5%	32	54	1.3%
TOTAL 2,074			2000	8	36	0.5%	36	42	1.0%
			4000	15	72	0.9%	40	34	0.8%
			6000	53	107	3.2%	44	33	0.8%
2-GATE SORTS			8000	85	143	5.1%	48	28	0.7%
DET	SORTS	FREQ%							
9	286	13.6%	10000	129	179	7.7%	52	26	0.6%
10	461	21.9%	12000	173	215	10.3%	56	17	0.4%
11	464	22.0%	14000	172	250	10.2%	60	14	0.3%
12	393	18.7%	16000	177	286	10.5%	64	16	0.4%
13	289	13.7%	18000	199	322	11.8%	68	13	0.3%
14	157	7.5%	20000	157	358	9.3%	72	7	0.2%
15	55	2.6%	22000	11	394	0.7%	76	9	0.2%
TOTAL 2,105			24000	0	429	0.0%	80	5	0.1%
			26000	0	465	0.0%	84	6	0.1%
			>28000	0	0	0.0%	>84	91	2.2%
			TOTAL	1,682			TOTAL	4,179	
EVENT TYPES		HPE	3,948	MPE	114	DISE	35913		



WORK HISTORY - JA SOIL CLEANUP PLANT

23-Mar-94

WORK DAY START	06:00 AM	WORK DAY END	16:30 PM		
LUNCH START	11:00 AM	TIME LOST DURING LUNCH	0.0 HR		
	SORTER 1	SORTER 2	SORTER 3	SORTER 4	TOTAL (sorter hours)
WORK HOURS	10.5 hr	10.5 hr	10.5 hr	10.5 hr	42.0 hr
SORTER AVAILABLE HOURS	10.3 hr	10.3 hr	0.0 hr	0.0 hr	20.5 hr
SORTER START-UP	06:00	06:00	NA	NA	
START SOIL PROCESSING	06:28	06:28	NA	NA	
TIME REQUIRED TO START-UP	0.5 hr	0.5 hr	0.0 hr	0.0 hr	1.0 hr
SORTER SHUT-DOWN	16:15	16:15	NA	NA	
END SOIL PROCESSING	15:51	15:52	NA	NA	
TIME REQUIRED TO SHUT DOWN	0.4 hr	0.4 hr	0.0 hr	0.0 hr	0.8 hr
ACTUAL PROCESS HOURS	8.5 hr	8.5 hr	0.0 hr	0.0 hr	17.1 hr
DOWN-TIME	1.7 hr	1.7 hr	0.0 hr	0.0 hr	3.4 hr
SYSTEM PAUSE	0.9 hr	0.9 hr	0.0 hr	0.0 hr	1.8 hr
SORTER NONAVAILABLE TIME	0.2 hr	0.2 hr	10.0 hr	10.0 hr	20.5 hr
AUTHORIZED DELAY TIME	0.0 hr	0.0 hr	10.0 hr	10.0 hr	20.0 hr
PLANT PERFORMANCE					83.3%
PRODUCTIVITY					40.7%

PRODUCTIVITY

Date	23-Mar-94	Excused Delays for day (sorter-hrs)	20 hr
Contract day (from 6 Sep)	159	Excused delays for contract (sorter-hrs)	2,563 hr
Current Contract week	27	Excused delay days (plant-days)	64 days
		Excused delay months (plant-month)	2.46 months
Soil production for Day	172 MT		
Cumulative Soil Production for Week	516 MT	Percent of contract completed	37.3%
Total Soil production for contract		Tons Ahead or Behind Schedule	1,852 MT
Since 6 Sep 93	35,710 MT	Days ahead or behind schedule	6 days
Since 6 Aug 93	37,301 MT		
Total Soil production for project	63,587 MT		

MT = metric tons

SORTER 1

23-Mar-94

SORTER SOIL DENSITY		1.20 tons/m ³	BACKGROUND		0.69 ± 0.03 c/s
SOIL	CONTAMINATED		CLEAN	TOTAL	
MASS TOTAL	46.1 tons		39.8 tons	85.9 tons	
MAXIMUM/SORT	55.9 kg		55.9 kg		
MINIMUM/SORT	0.7 kg		44.0 kg		
VOLUME IN-GROUND	36.6 yd ³		31.5 yd ³	68.1 yd ³	
WEIGHT RECOVERY (CLEAN/(HOT+CLEAN))		46.3%			

ACTIVITY

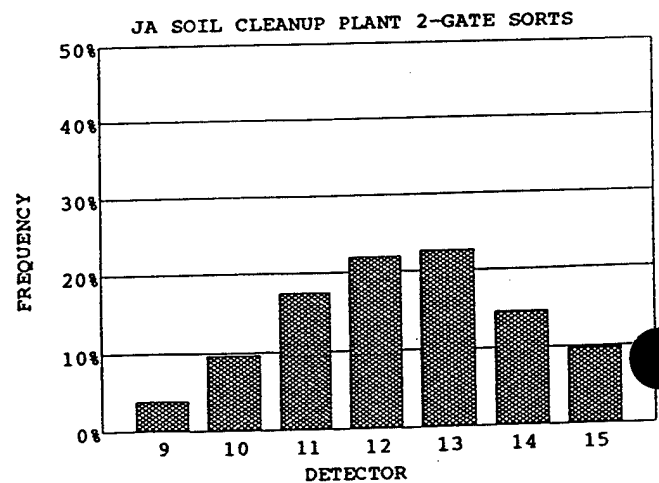
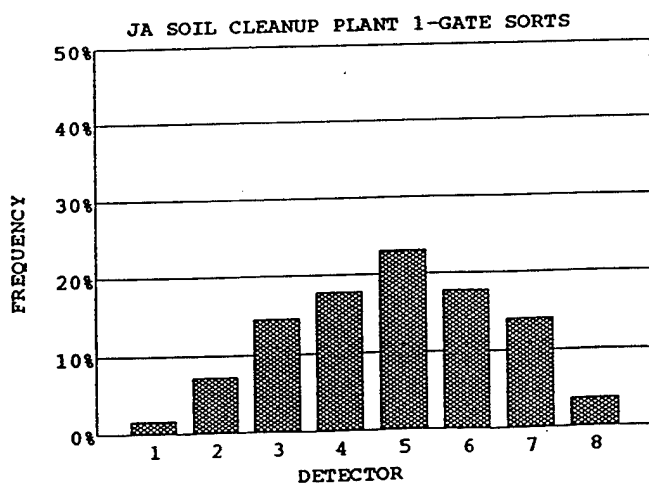
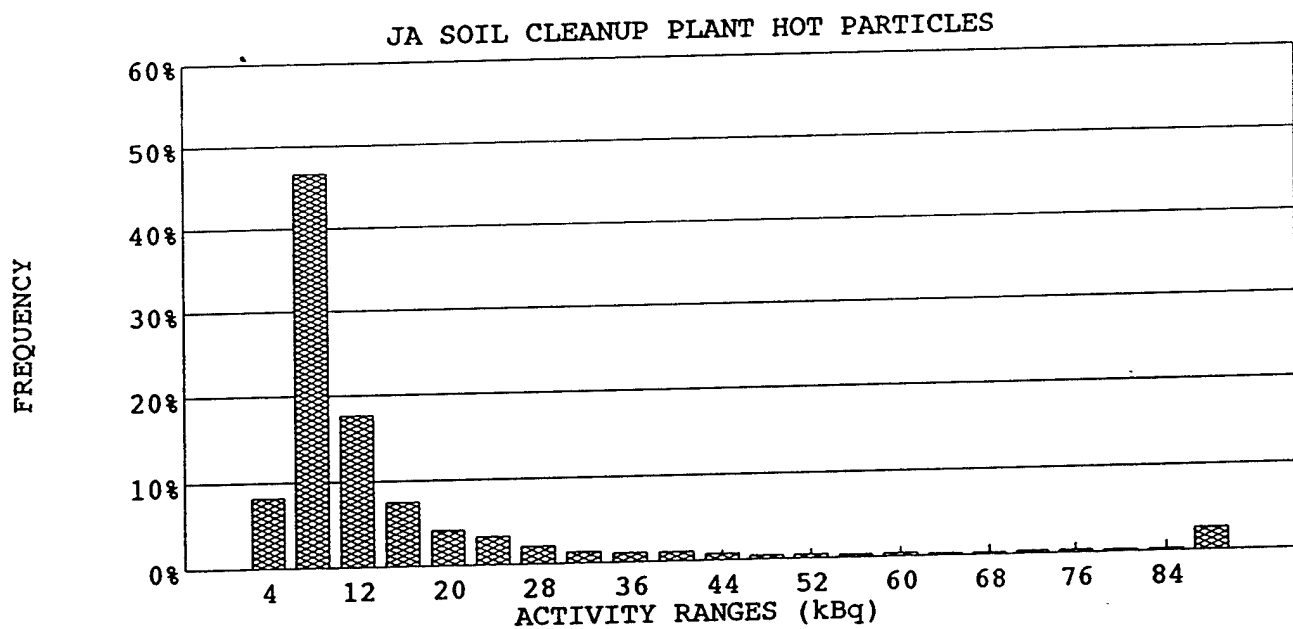
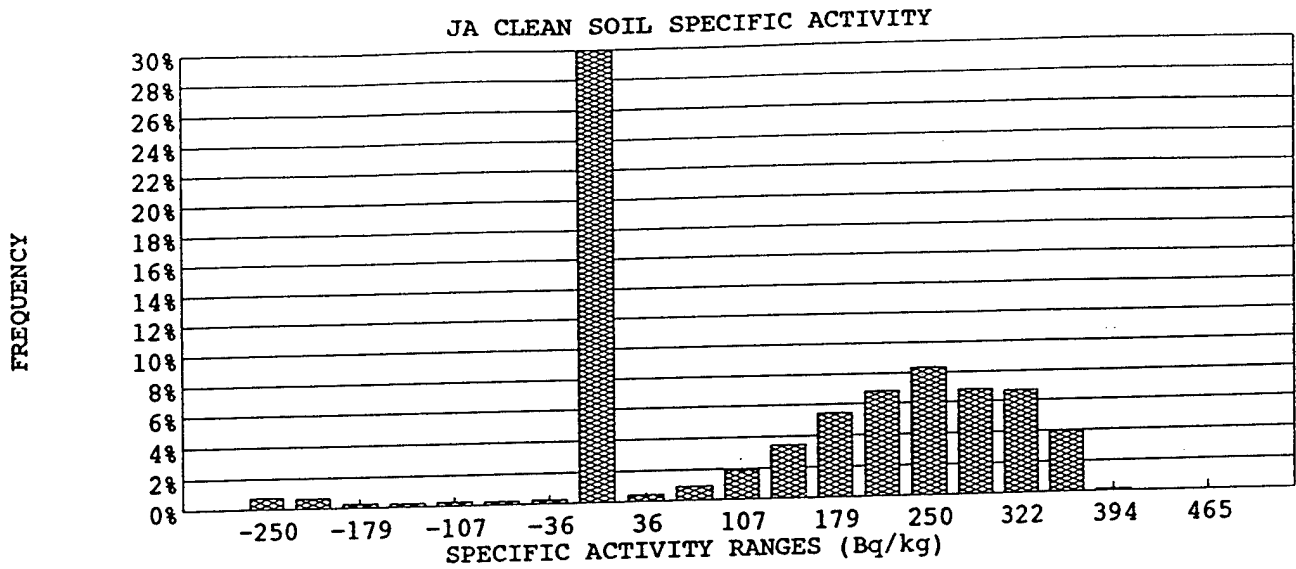
	DISPERSED + PARTICLE		TOTAL
	PARTICLE	HOT	CLEAN
TOTAL	105,346 kBq	75,815 kBq	8,270 kBq
MAXIMUM/SORT	4,435 kBq	3,031 kBq	20 kBq
MINIMUM/SORT	2 kBq	0 Bq	-18 kBq
SPECIFIC ACTIVITY		1,644 Bq/kg	208 Bq/kg

SORTS

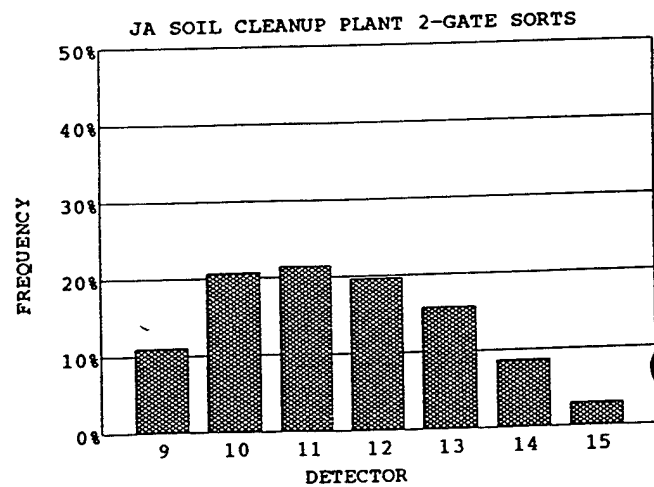
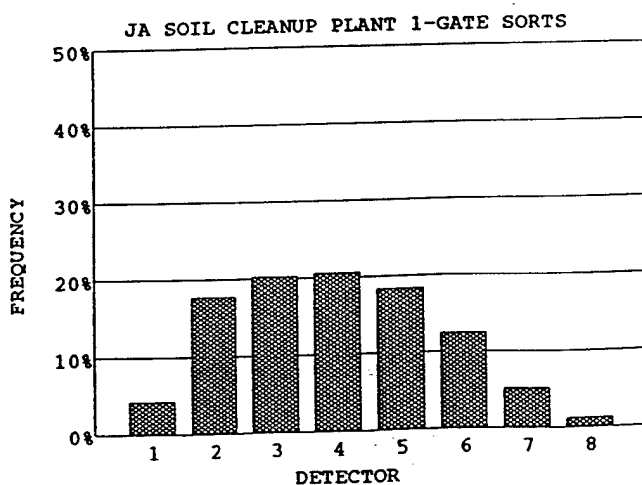
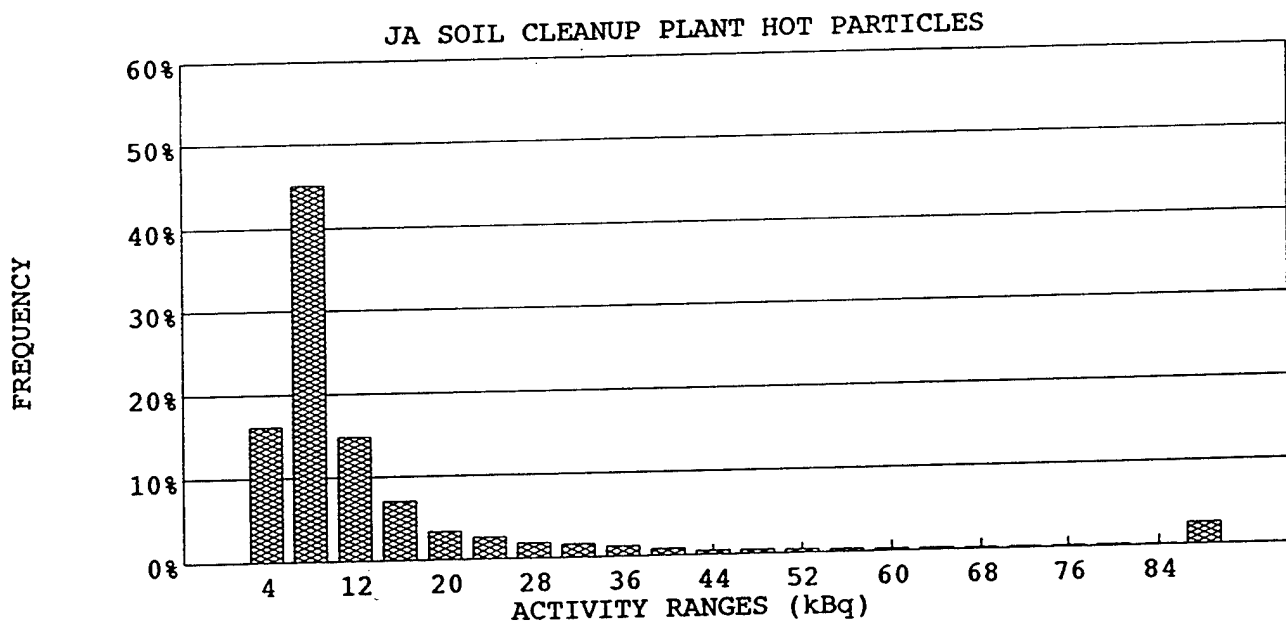
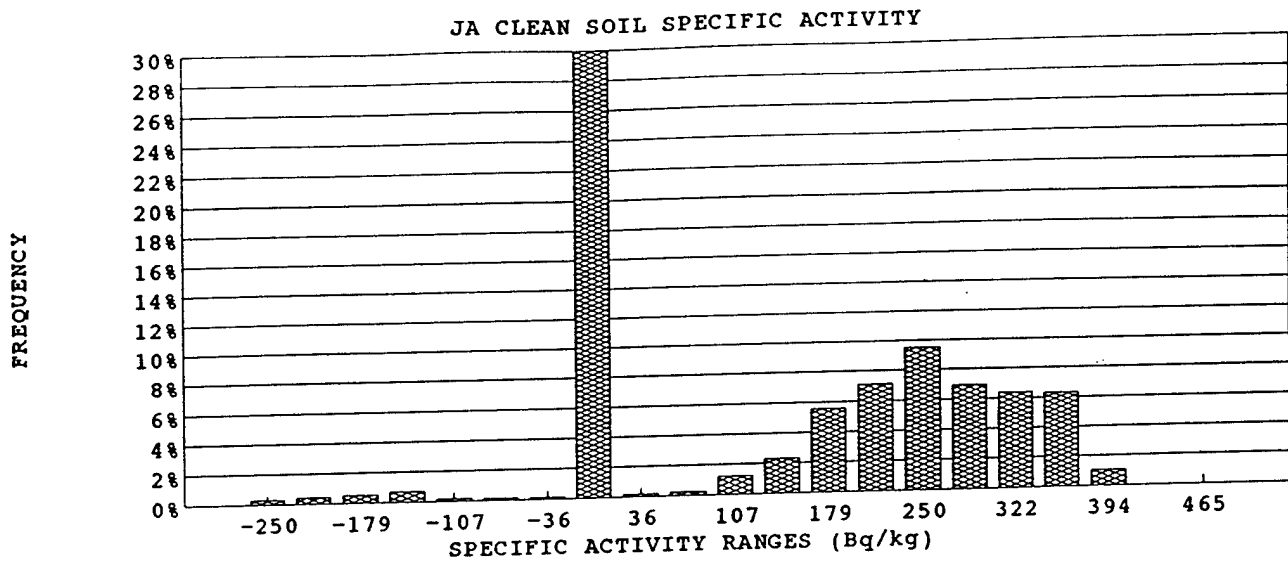
20-SEC PROCESS PERIODS		1,537	UNEXP	PAUSE
ALL 80 ELEMENTS SORT (MD>0&MND=0)	808		TIME	TIME
NONE (AD=0 & MD=0 & MND>0)	336		None	08:27
SOME (AD>0&0<MD<MNDmax&MND<MNDmax)	393			08:58
UNEXPLAINED RECORDS	0			09:31
0<AD<1kBq & MD>0	0			10:02
AD=0 & MD>0	0			10:33
AD<0 & MD>0	0			13:09
2-SEC COUNT PERIODS		15,370		13:37
2-SEC RECORDS WITH SORTS	5,557			14:06
2-SEC RECORDS WITHOUT SORTS	9,813			14:35
TOTAL PROCESS RECORDS (2-s SORTS and 20-s PERIODS)		7,094		15:05
NONPROCESSING RECORDS (Test, calibration, etc)		3		15:33
2-SEC SORT DETECTORS				
1 DET	3,731 67.1%	5 DET	20	0.4%
2 DET	1,379 24.8%	6 DET	0	0.0%
3 DET	341 6.1%	7 DET	1	0.0%
4 DET	86 1.5%	8 DET	1	0.0%
AVERAGE TIME BETWEEN 2-SEC SORTS	8.2 sec			

FREQUENCY DISTRIBUTIONS

1-GATESORTS			ACT_ND	NUM	SPEC_A	FREQ%	ACT_P	NUM	FREQ%
DET	SORTS	FREQ%	(Bq)	(#)	(Bq/kg)		(kBq)	(#)	
1	47	1.6%	-14000	11	-250	0.7%	4	458	8.2%
2	206	7.2%	-12000	10	-215	0.6%	8	2,591	46.6%
3	415	14.6%	-10000	4	-179	0.3%	12	983	17.7%
4	508	17.8%	-8000	3	-143	0.2%	16	419	7.5%
5	658	23.1%	-6000	4	-107	0.3%	20	233	4.2%
6	509	17.9%	-4000	3	-72	0.2%	24	185	3.3%
7	401	14.1%	-2000	4	-36	0.3%	28	115	2.1%
8	105	3.7%	0	810	0	52.6%	32	73	1.3%
TOTAL	2,849		2000	7	36	0.5%	36	61	1.1%
			4000	14	72	0.9%	40	61	1.1%
			6000	29	107	1.9%	44	44	0.8%
2-GATESORTS			8000	53	143	3.4%	48	27	0.5%
DET	SORTS	FREQ%	10000	84	179	5.5%	52	27	0.5%
9	105	3.9%	12000	105	215	6.8%	56	16	0.3%
10	262	9.7%	14000	128	250	8.3%	60	22	0.4%
11	474	17.5%	16000	105	286	6.8%	64	14	0.3%
12	594	21.9%	18000	103	322	6.7%	68	15	0.3%
13	614	22.7%	20000	61	358	4.0%	72	17	0.3%
14	396	14.6%	22000	2	394	0.1%	76	19	0.3%
15	263	9.7%	24000	0	429	0.0%	80	15	0.3%
TOTAL	2,708		26000	0	465	0.0%	84	15	0.3%
			>28000	0	0	0.0%	>84	147	2.6%
			TOTAL	1,540			TOTAL	5,557	
EVENT TYPES	HPE	5,142	MPE	180	DISE	60677			



SORTER 2				23-Mar-94					
SORTER SOIL DENSITY		1.20 tons/m ³		BACKGROUND		0.78 ± 0.04 c/s			
SOIL		CONTAMINATED		CLEAN		TOTAL			
MASS TOTAL		44.5 tons		41.4 tons		85.9 tons			
MAXIMUM/SORT		55.9 kg		55.9 kg					
MINIMUM/SORT		0.7 kg		42.6 kg					
VOLUME IN-GROUND		35.3 yd ³		32.8 yd ³		68.1 yd ³			
WEIGHT RECOVERY (CLEAN/(HOT+CLEAN))		48.2%							
ACTIVITY		PARTICLE		DISPERSED + PARTICLE					
				HOT		CLEAN			
TOTAL		110,828 kBq		78,055 kBq		9,301 kBq			
MAXIMUM/SORT		4,376 kBq		2,642 kBq		21 kBq			
MINIMUM/SORT		2 kBq		0 Bq		-17 kBq			
SPECIFIC ACTIVITY				1,752 Bq/kg		225 Bq/kg			
SORTS									
20-SEC PROCESS PERIODS				1,537		UNEXP PAUSE			
ALL 80 ELEMENTS SORT (MD>0&MND=0)				779		TIME TIME			
NONE (AD=0 & MD=0 & MND>0)				332		10:54 08:27			
SOME (AD>0&0<MD<MNDmax&MND<MNDmax)				426		12:17 08:59			
UNEXPLAINED RECORDS				0		09:32			
0<AD<1kBq & MD>0				2		10:01			
AD=0 & MD>0				0		10:33			
AD<0 & MD >0				0		13:09			
2-SEC COUNT PERIODS				15,370		13:37			
2-SEC RECORDS WITH SORTS				6,473		14:06			
2-SEC RECORDS WITHOUT SORTS				8,897		14:35			
TOTAL PROCESS RECORDS (2-s SORTS and 20-s PERIODS)				8,010		15:05			
NONPROCESSING RECORDS (Test, calibration, etc)				1		15:33			
2-SEC SORT DETECTORS									
1 DET		4,377	67.6%	5 DET	20	0.3%			
2 DET		1,585	24.5%	6 DET	0	0.0%			
3 DET		406	6.3%	7 DET	0	0.0%			
4 DET		85	1.3%	8 DET	0	0.0%			
AVERAGE TIME BETWEEN 2-SEC SORTS				7.0 sec					
FREQUENCY DISTRIBUTIONS									
1-GATE SORTS		ACT_ND	NUM	SPEC_A	FREQ%	ACT_P	NUM	FREQ%	
DET	SORTS	(Bq)	(#)	(Bq/kg)		(kBq)	(#)		
1	137	4.2%	-14000	5	-250	0.3%	4	1,045	16.1%
2	571	17.7%	-12000	7	-215	0.5%	8	2,918	45.1%
3	653	20.2%	-10000	8	-179	0.5%	12	958	14.8%
4	665	20.6%	-8000	11	-143	0.7%	16	457	7.1%
5	591	18.3%	-6000	3	-107	0.2%	20	217	3.4%
6	401	12.4%	-4000	2	-72	0.1%	24	165	2.5%
7	169	5.2%	-2000	2	-36	0.1%	28	116	1.8%
8	40	1.2%	0	780	0	50.7%	32	100	1.5%
TOTAL	3,227		2000	3	36	0.2%	36	76	1.2%
			4000	4	72	0.3%	40	53	0.8%
2-GATE SORTS		6000	19	107	1.2%	44	32	0.5%	
DET	SORTS	FREQ%	8000	36	143	2.3%	48	33	0.5%
9	355	10.9%	10000	85	179	5.5%	52	26	0.4%
10	671	20.7%	12000	109	215	7.1%	56	20	0.3%
11	696	21.4%	14000	146	250	9.5%	60	18	0.3%
12	639	19.7%	16000	107	286	7.0%	64	17	0.3%
13	511	15.7%	18000	98	322	6.4%	68	10	0.2%
14	280	8.6%	20000	97	358	6.3%	72	14	0.2%
15	94	2.9%	22000	16	394	1.0%	76	11	0.2%
TOTAL	3,246		24000	0	429	0.0%	80	12	0.2%
			26000	0	465	0.0%	84	7	0.1%
			>28000	0	0	0.0%	>84	168	2.6%
			TOTAL	1,538			TOTAL	6,473	
EVENT TYPES		HPE	5,943	MPE	204	DISE	57593		



WORK HISTORY - JA SOIL CLEANUP PLANT

24-Mar-94

WORK DAY START	06:00 AM	WORK DAY END	16:30 PM
LUNCH START	11:00 AM	TIME LOST DURING LUNCH	0.0 HR

	SORTER 1	SORTER 2	SORTER 3	SORTER 4	TOTAL (sorter hours)
WORK HOURS	10.5 hr	10.5 hr	10.5 hr	10.5 hr	42.0 hr
SORTER AVAILABLE HOURS	10.4 hr	10.4 hr	0.0 hr	0.0 hr	20.8 hr
SORTER START-UP	06:00	06:00	NA	NA	
START SOIL PROCESSING	06:35	06:34	NA	NA	
TIME REQUIRED TO START-UP	0.6 hr	0.6 hr	0.0 hr	0.0 hr	1.2 hr
SORTER SHUT-DOWN	16:25	16:25	NA	NA	
END SOIL PROCESSING	16:02	16:00	NA	NA	
TIME REQUIRED TO SHUT DOWN	0.4 hr	0.4 hr	0.0 hr	0.0 hr	0.8 hr
ACTUAL PROCESS HOURS	8.9 hr	8.8 hr	0.0 hr	0.0 hr	17.7 hr
DOWN-TIME	1.5 hr	1.6 hr	0.0 hr	0.0 hr	3.1 hr
SYSTEM PAUSE	0.6 hr	0.6 hr	0.0 hr	0.0 hr	1.3 hr
SORTER NONAVAILABLE TIME	0.1 hr	0.1 hr	10.0 hr	10.0 hr	20.2 hr
AUTHORIZED DELAY TIME	0.0 hr	0.0 hr	10.0 hr	10.0 hr	20.0 hr
PLANT PERFORMANCE					85.0%
PRODUCTIVITY					42.2%

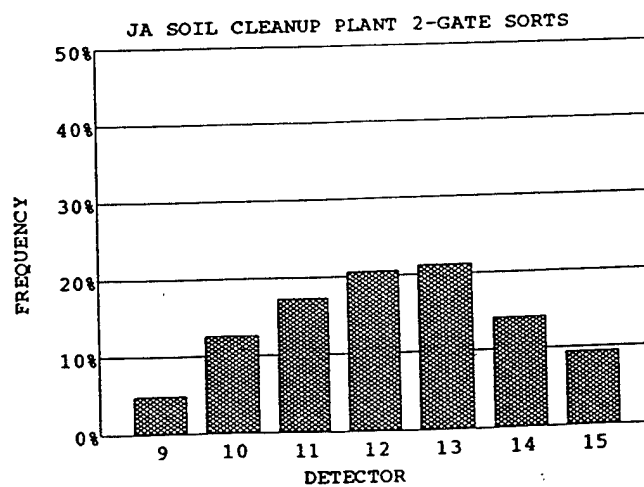
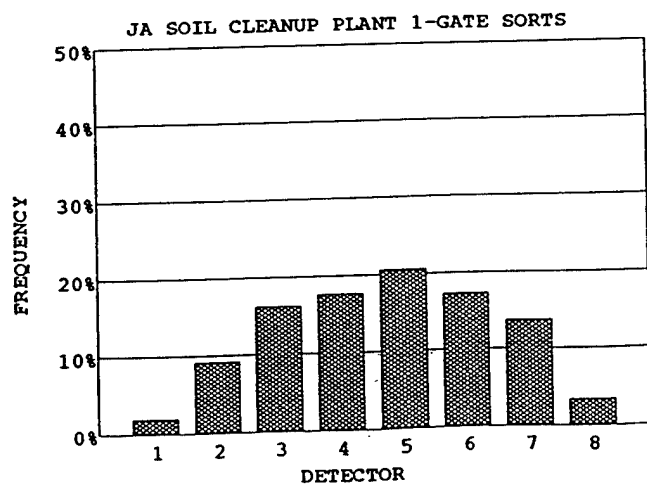
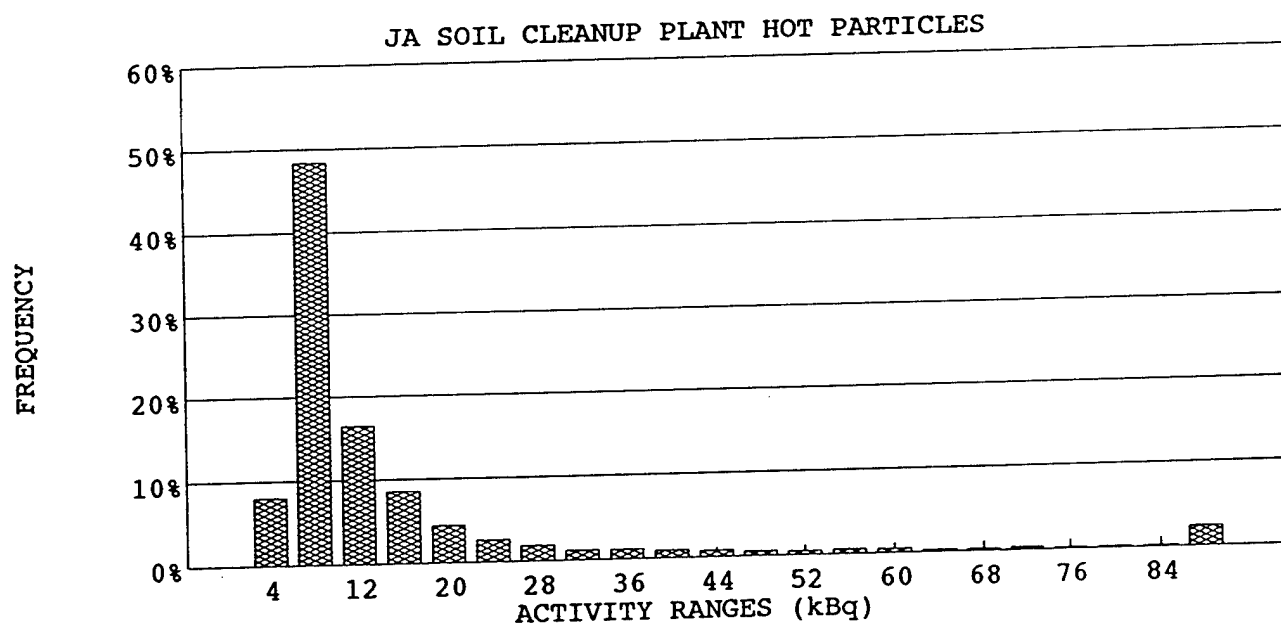
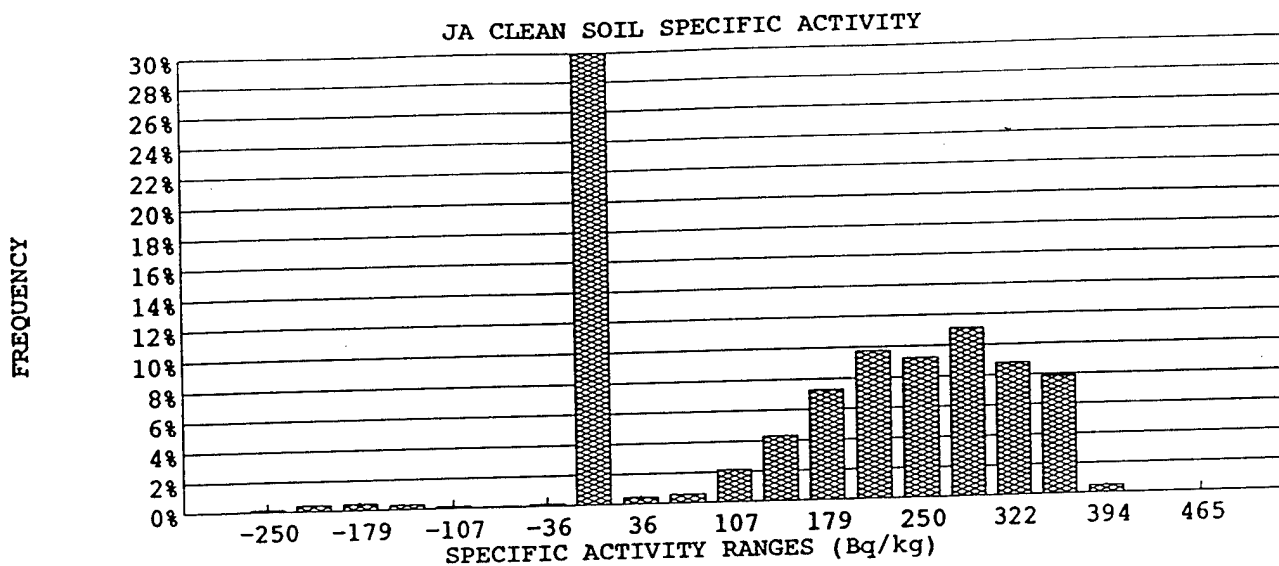
PRODUCTIVITY

Date	24-Mar-94	Excused Delays for day (sorter-hrs)	20 hr
Contract day (from 6 Sep)	160	Excused delays for contract (sorter-hrs)	2,583 hr
Current Contract week	27	Excused delay days (plant-days)	65 days
		Excused delay months (plant-month)	2.48 months
Soil production for Day	178 MT		
Cumulative Soil Production for Week	694 MT	Percent of contract completed	37.5%
Total Soil production for contract		Tons Ahead or Behind Schedule	1,872 MT
Since 6 Sep 93	35,888 MT	Days ahead or behind schedule	6 days
Since 6 Aug 93	37,479 MT		
Total Soil production for project	63,766 MT		

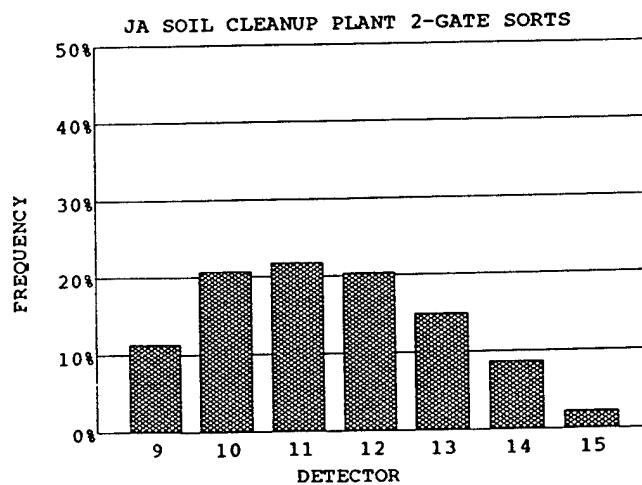
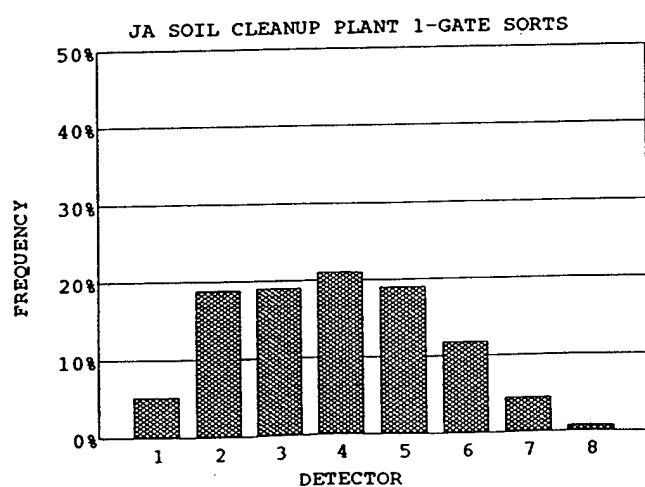
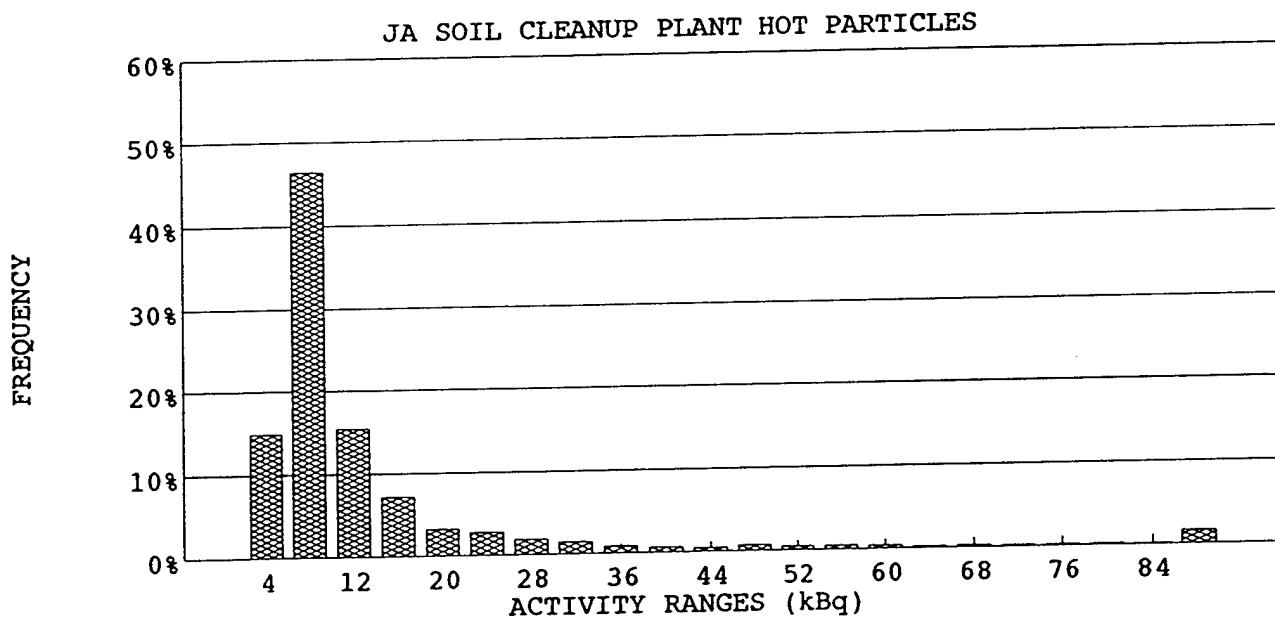
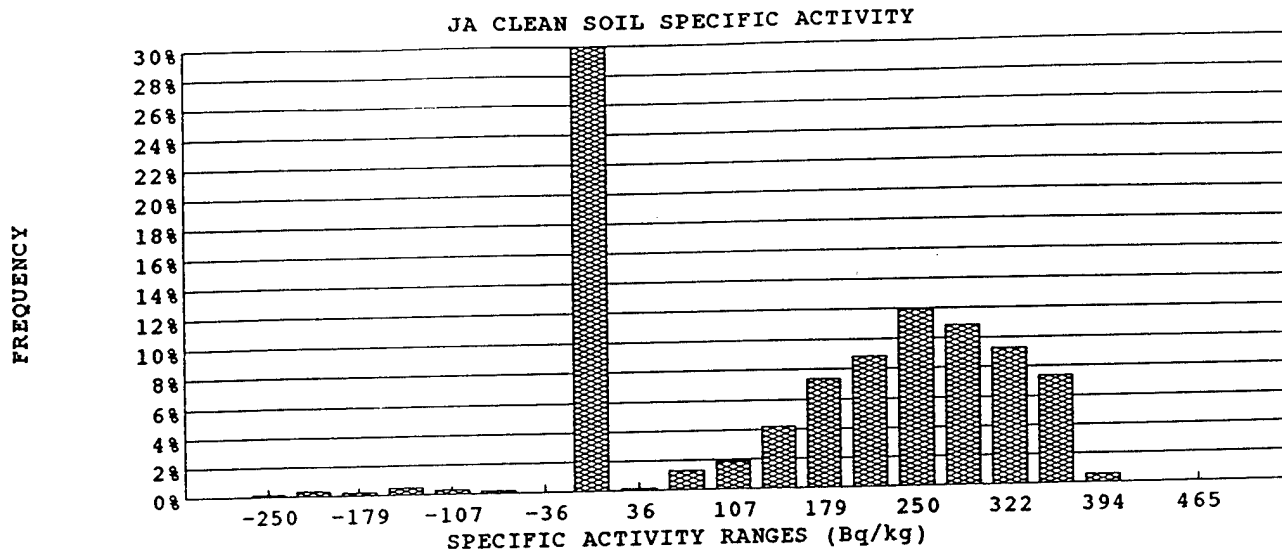
MT = metric tons

SORTER 1										24-Mar-94	
SORTER SOIL DENSITY					1.20 tons/m ³		BACKGROUND		0.65 ± 0.02 c/s		
SOIL					CONTAMINATED		CLEAN		TOTAL		
MASS TOTAL					33.2 tons		56.1 tons		89.3 tons		
MAXIMUM/SORT					55.9 kg		55.9 kg				
MINIMUM/SORT					0.7 kg		44.7 kg				
VOLUME IN-GROUND					26.3 yd ³		44.5 yd ³		70.8 yd ³		
WEIGHT RECOVERY (CLEAN/(HOT+CLEAN))					62.8%						
ACTIVITY					PARTICLE		DISPERSED + PARTICLE				
					HOT		CLEAN				
TOTAL					58,359 kBq		46,007 kBq		12,756 kBq		
MAXIMUM/SORT					2,066 kBq		1,414 kBq		20 kBq		
MINIMUM/SORT					3 kBq		0 Bq		-14 kBq		
SPECIFIC ACTIVITY							1,387 Bq/kg		227 Bq/kg		
SORTS											
20-SEC PROCESS PERIODS							1,597		UNEXP PAUSE		
ALL 80 ELEMENTS SORT (MD>0&MND=0)					579				TIME TIME		
NONE (AD=0 & MD=0 & MND>0)					653				07:38 08:10		
SOME (AD>0&0<MD<MNDmax&MND<MNDmax)					365				08:52		
UNEXPLAINED RECORDS					0				09:22		
0<AD<1kBq & MD>0					1				09:52		
AD=0 & MD>0					0				10:23		
AD<0 & MD >0					0						
2-SEC COUNT PERIODS							15,970				
2-SEC RECORDS WITH SORTS					3,392						
2-SEC RECORDS WITHOUT SORTS					12,578						
TOTAL PROCESS RECORDS (2-s SORTS and 20-s PERIODS)							4,989				
NONPROCESSING RECORDS (Test, calibration, etc)							4				
2-SEC SORT DETECTORS											
1 DET 2,320 68.4%					5 DET		11 0.3%				
2 DET 821 24.2%					6 DET		0 0.0%				
3 DET 199 5.9%					7 DET		0 0.0%				
4 DET 41 1.2%					8 DET		0 0.0%				
AVERAGE TIME BETWEEN 2-SEC SORTS					13.8 sec						
FREQUENCY DISTRIBUTIONS											
1-GATE SORTS			ACT_ND		NUM		SPEC_A		FREQ%		
			(Bq)		(#)		(Bq/kg)		ACT_P		
									(kBq)		
DET SORTS FREQ%									NUM		
									FREQ%		
1 34 1.9%			-14000 2		-250 0.1%		4		271 8.0%		
2 160 9.1%			-12000 6		-215 0.4%		8		1,643 48.4%		
3 284 16.2%			-10000 7		-179 0.4%		12		558 16.5%		
4 309 17.7%			-8000 5		-143 0.3%		16		290 8.5%		
5 361 20.6%			-6000 2		-107 0.1%		20		151 4.5%		
6 303 17.3%			-4000 1		-72 0.1%		24		90 2.7%		
7 239 13.7%			-2000 2		-36 0.1%		28		63 1.9%		
8 59 3.4%			0 583		0 36.4%		32		39 1.1%		
TOTAL 1,749			2000 7		36 0.4%		36		40 1.2%		
			4000 9		72 0.6%		40		32 0.9%		
2-GATE SORTS			6000 34		107 2.1%		44		26 0.8%		
DET SORTS FREQ%			8000 69		143 4.3%		48		18 0.5%		
9 80 4.9%			10000 117		179 7.3%		52		15 0.4%		
10 207 12.6%			12000 156		215 9.7%		56		18 0.5%		
11 284 17.3%			14000 148		250 9.2%		60		15 0.4%		
12 338 20.6%			16000 178		286 11.1%		64		8 0.2%		
13 348 21.2%			18000 141		322 8.8%		68		9 0.3%		
14 232 14.1%			20000 126		358 7.9%		72		11 0.3%		
15 154 9.4%			22000 8		394 0.5%		76		5 0.1%		
TOTAL 1,643			24000 0		429 0.0%		80		5 0.1%		
			26000 0		465 0.0%		84		4 0.1%		
			>28000 0		0 0.0%		>84		81 2.4%		
			TOTAL 1,601				TOTAL		3,392		
EVENT TYPES			HPE 3,178		MPE 127		DISE 44176				

SORTER 1



24-Mar-94									
SORTER 2		SORTER SOIL DENSITY		1.20 tons/m ³		BACKGROUND		0.76 ± 0.03 c/s	
SOIL		CONTAMINATED		CLEAN		TOTAL			
MASS TOTAL		31.5 tons		57.4 tons		88.9 tons			
MAXIMUM/SORT		55.9 kg		55.9 kg					
MINIMUM/SORT		0.7 kg		41.9 kg					
VOLUME IN-GROUND		25.0 yd ³		45.5 yd ³		70.5 yd ³			
WEIGHT RECOVERY (CLEAN/(HOT+CLEAN))		64.6%							
ACTIVITY		PARTICLE		HOT		DISPERSED + PARTICLE CLEAN			
TOTAL		52,260 kBq		41,567 kBq		13,030 kBq			
MAXIMUM/SORT		2,319 kBq		1,345 kBq		20 kBq			
MINIMUM/SORT		2 kBq		0 Bq		-15 kBq			
SPECIFIC ACTIVITY				1,320 Bq/kg		227 Bq/kg			
SORTS				1,590		UNEXP		PAUSE	
20-SEC PROCESS PERIODS						TIME		TIME	
ALL 80 ELEMENTS SORT (MD>0&MND=0)		548				07:06		08:10	
NONE (AD=0 & MD=0 & MND>0)		671						08:52	
SOME (AD>0&0<MD<MNDmax&MND<MNDmax)		371						09:23	
UNEXPLAINED RECORDS		0						09:51	
0<AD<1kBq & MD>0		1						10:24	
AD=0 & MD>0		0							
AD<0 & MD >0		0							
2-SEC COUNT PERIODS				15,900					
2-SEC RECORDS WITH SORTS		3,565							
2-SEC RECORDS WITHOUT SORTS		12,335							
TOTAL PROCESS RECORDS (2-s SORTS and 20-s PERIODS)				5,155					
NONPROCESSING RECORDS (Test, calibration, etc)				2					
2-SEC SORT DETECTORS									
1 DET		2,429 68.1%		5 DET		6		0.2%	
2 DET		865 24.3%		6 DET		0		0.0%	
3 DET		220 6.2%		7 DET		0		0.0%	
4 DET		45 1.3%		8 DET		0		0.0%	
AVERAGE TIME BETWEEN 2-SEC SORTS		13.1 sec							
FREQUENCY DISTRIBUTIONS									
1-GATE SORTS		ACT_ND		NUM		SPEC_A		FREQ%	
DET SORTS		FREQ%		(Bq)		(Bq/kg)		ACT_P	
				(#)				(kBq)	
								NUM	
								(FREQ%)	
1		92 5.2%		-14000 2		-250 0.1%		4 530 14.9%	
2		334 18.8%		-12000 6		-215 0.4%		8 1,653 46.4%	
3		337 19.0%		-10000 4		-179 0.3%		12 550 15.4%	
4		373 21.0%		-8000 8		-143 0.5%		16 258 7.2%	
5		338 19.0%		-6000 5		-107 0.3%		20 118 3.3%	
6		208 11.7%		-4000 3		-72 0.2%		24 100 2.8%	
7		79 4.5%		-2000 0		-36 0.0%		28 66 1.9%	
8		14 0.8%		0 550		0 34.5%		32 52 1.5%	
TOTAL		1,775		2000 2		36 0.1%		36 30 0.8%	
				4000 21		72 1.3%		40 22 0.6%	
				6000 30		107 1.9%		44 19 0.5%	
2-GATE SORTS				8000 67		143 4.2%		48 25 0.7%	
DET SORTS		FREQ%							
9		203 11.3%		10000 117		179 7.3%		52 17 0.5%	
10		371 20.7%		12000 141		215 8.9%		56 16 0.4%	
11		390 21.8%		14000 189		250 11.9%		60 14 0.4%	
12		364 20.3%		16000 173		286 10.9%		64 7 0.2%	
13		267 14.9%		18000 148		322 9.3%		68 9 0.3%	
14		155 8.7%		20000 117		358 7.3%		72 5 0.1%	
15		40 2.2%		22000 9		394 0.6%		76 5 0.1%	
TOTAL		1,790		24000 0		429 0.0%		80 6 0.2%	
				26000 0		465 0.0%		84 4 0.1%	
				>28000 0		0 0.0%		>84 59 1.7%	
				TOTAL		1,592		TOTAL 3,565	
EVENT TYPES		HPE		3,327		MPE		94 DISE 41658	



WORK HISTORY - JA SOIL CLEANUP PLANT

25-Mar-94

WORK DAY START	06:00 AM	WORK DAY END	16:30 PM
LUNCH START	11:00 AM	TIME LOST DURING LUNCH	0.0 HR

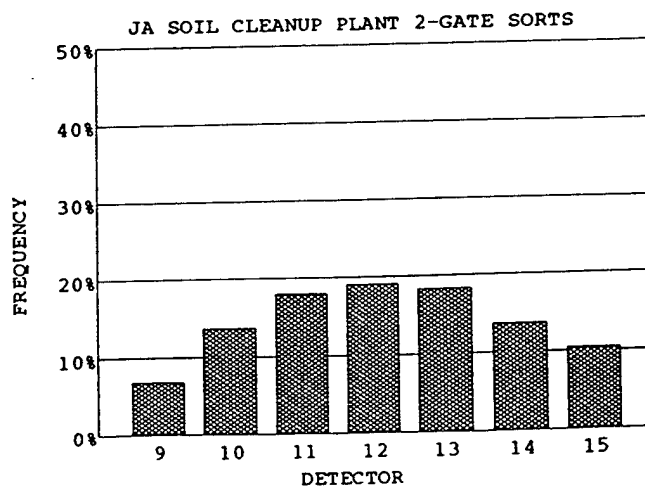
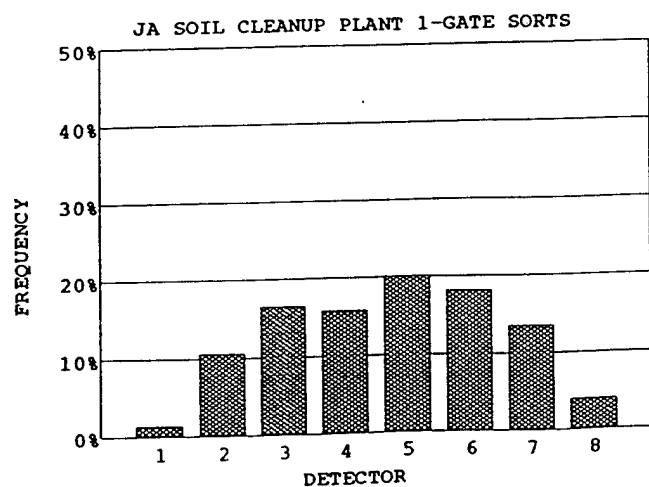
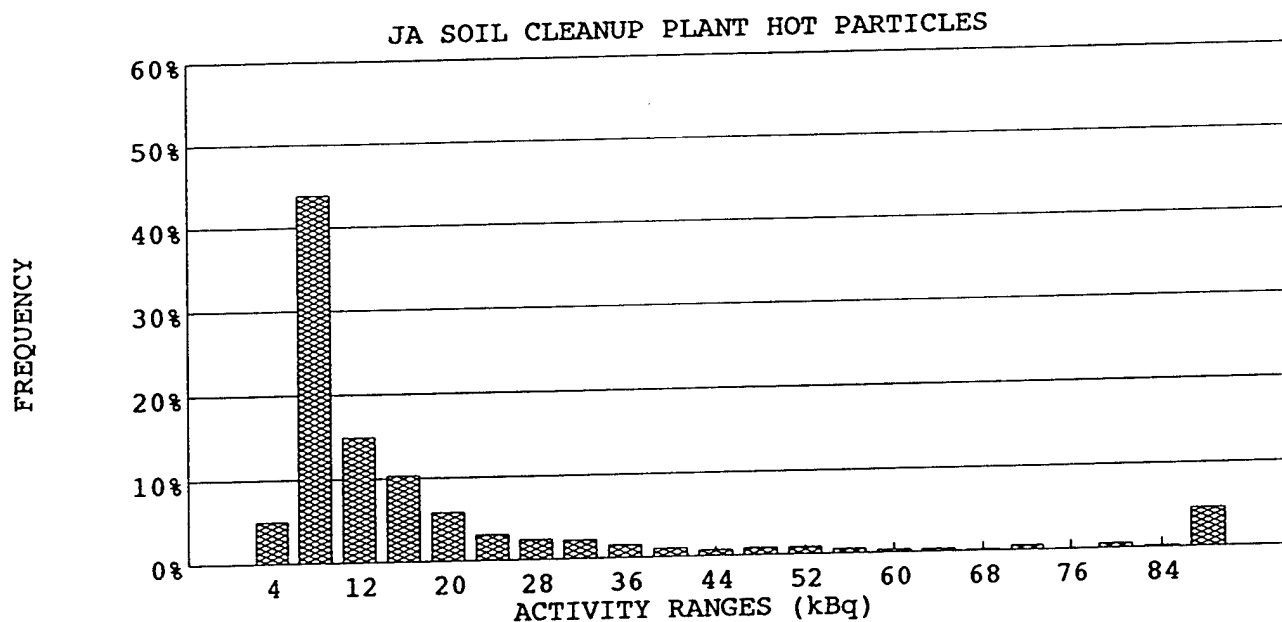
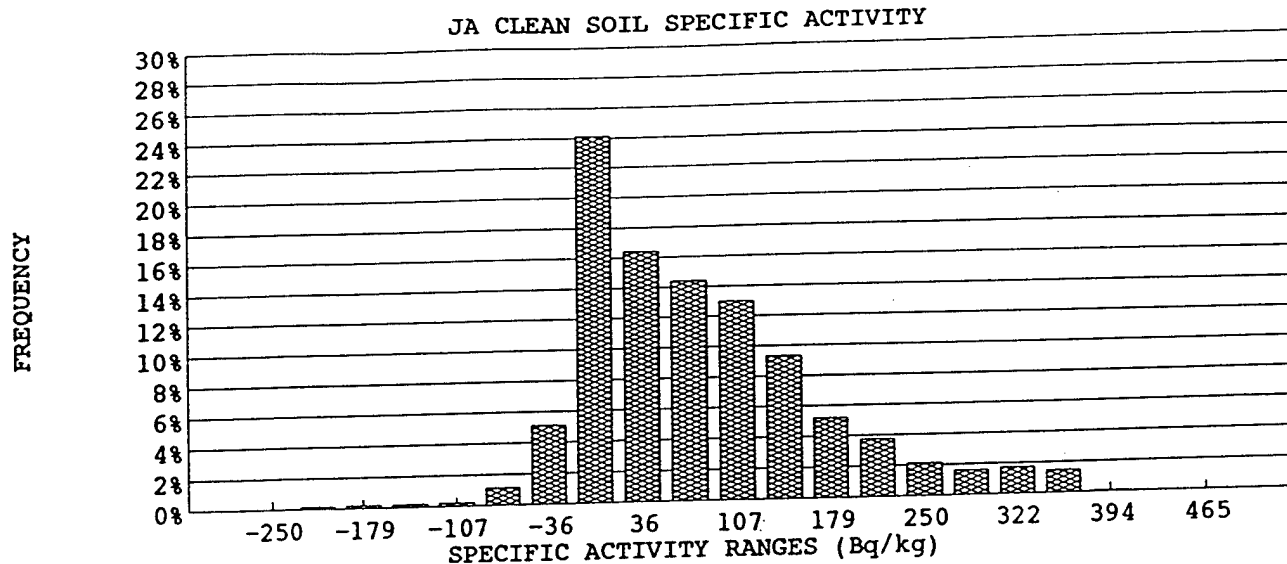
	SORTER 1	SORTER 2	SORTER 3	SORTER 4	TOTAL (sorter hours)
WORK HOURS	10.5 hr	10.5 hr	10.5 hr	10.5 hr	42.0 hr
SORTER AVAILABLE HOURS	10.4 hr	10.4 hr	0.0 hr	0.0 hr	20.8 hr
SORTER START-UP	06:00	06:00	NA	NA	
START SOIL PROCESSING	06:38	06:38	NA	NA	
TIME REQUIRED TO START-UP	0.6 hr	0.6 hr	0.0 hr	0.0 hr	1.3 hr
SORTER SHUT-DOWN	16:25	16:25	NA	NA	
END SOIL PROCESSING	16:09	16:08	NA	NA	
TIME REQUIRED TO SHUT DOWN	0.3 hr	0.3 hr	0.0 hr	0.0 hr	0.5 hr
ACTUAL PROCESS HOURS	9.4 hr	9.3 hr	0.0 hr	0.0 hr	18.7 hr
DOWN-TIME	1.0 hr	1.1 hr	0.0 hr	0.0 hr	2.1 hr
SYSTEM PAUSE	0.0 hr	0.2 hr	0.0 hr	0.0 hr	0.2 hr
SORTER NONAVAILABLE TIME	0.1 hr	0.1 hr	10.0 hr	10.0 hr	20.2 hr
AUTHORIZED DELAY TIME	0.0 hr	0.0 hr	10.0 hr	10.0 hr	20.0 hr
PLANT PERFORMANCE					89.9%
PRODUCTIVITY					44.6%

PRODUCTIVITY

Date	25-Mar-94	Excused Delays for day (sorter-hrs)	20 hr
Contract day (from 6 Sep)	161	Excused delays for contract (sorter-hrs)	2,603 hr
Current Contract week	27	Excused delay days (plant-days)	65 days
		Excused delay months (plant-month)	2.50 months
Soil production for Day	188 MT		
Cumulative Soil Production for Week	882 MT	Percent of contract completed	37.7%
Total Soil production for contract		Tons Ahead or Behind Schedule	1,902 MT
Since 6 Sep 93	36,076 MT	Days ahead or behind schedule	6 days
Since 6 Aug 93	37,667 MT		
Total Soil production for project	63,954 MT		

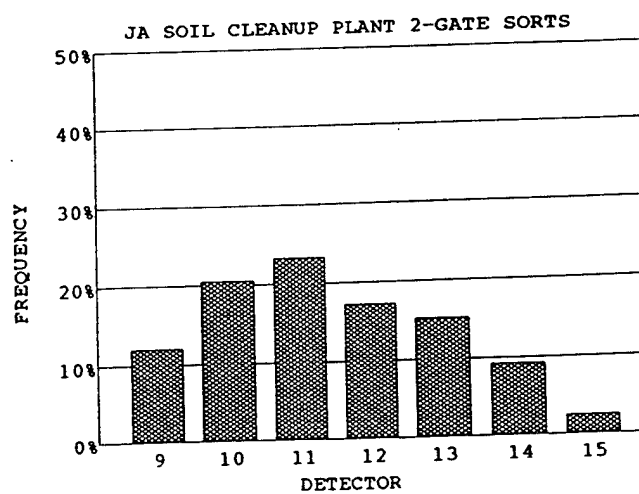
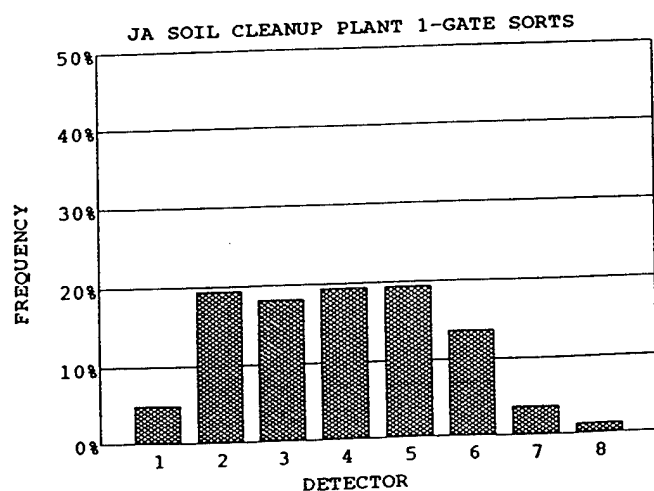
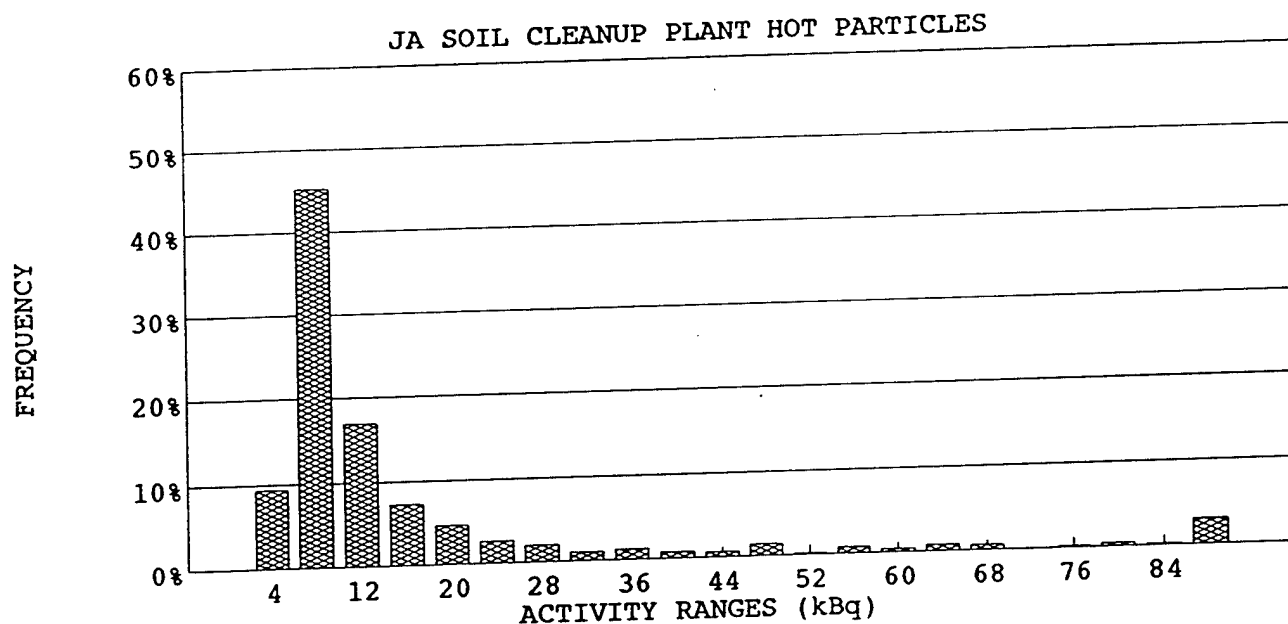
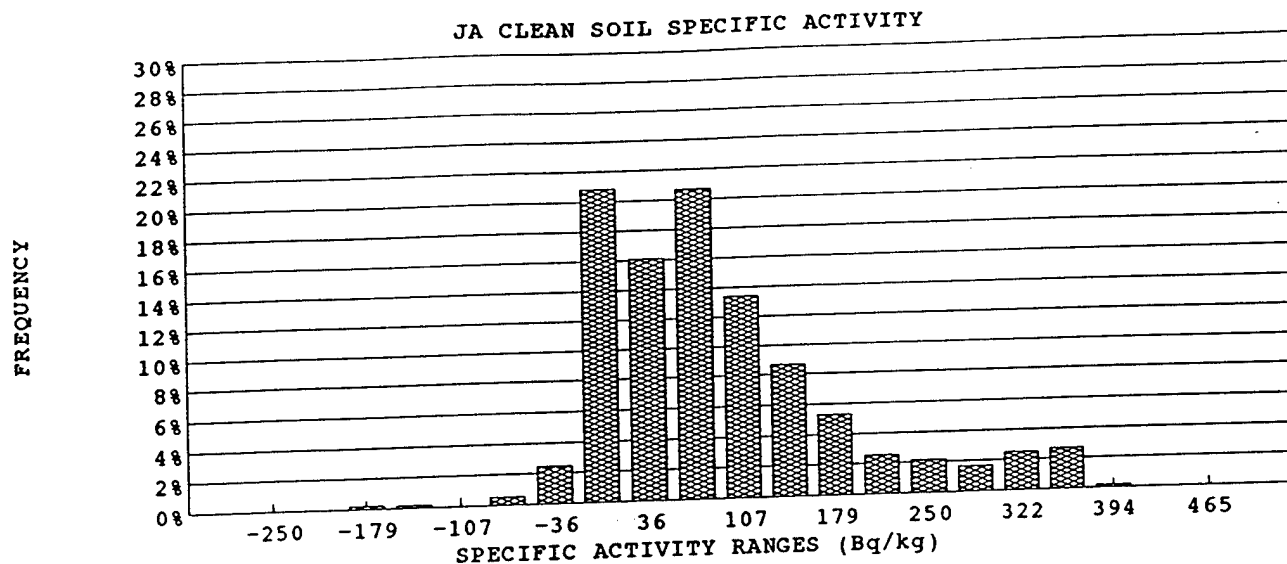
MT = metric tons

SORTER 1				25-Mar-94											
SORTER SOIL DENSITY		1.20 tons/m ³		BACKGROUND		0.63 ± 0.02 c/s									
SOIL		CONTAMINATED		CLEAN		TOTAL									
MASS TOTAL		14.0 tons		80.9 tons		94.9 tons									
MAXIMUM/SORT		55.9 kg		55.9 kg											
MINIMUM/SORT		0.7 kg		48.9 kg											
VOLUME IN-GROUND		11.1 yd ³		64.1 yd ³		75.2 yd ³									
WEIGHT RECOVERY (CLEAN/(HOT+CLEAN))		85.3%													
ACTIVITY		DISPERSED + PARTICLE													
		PARTICLE		HOT		CLEAN									
TOTAL		21,974 kBq		13,980 kBq		6,083 kBq									
MAXIMUM/SORT		4,614 kBq		1,756 kBq		20 kBq									
MINIMUM/SORT		3 kBq		0 Bq		-12 kBq									
SPECIFIC ACTIVITY				1,000 Bq/kg		75 Bq/kg									
SORTS															
20-SEC PROCESS PERIODS				1,697		UNEXP PAUSE									
ALL 80 ELEMENTS SORT (MD>0&MND=0)				243		TIME TIME									
NONE (AD=0 & MD=0 & MND>0)				1,152		None 07:39									
SOME (AD>0&0<MD<MNDmax&MND<MNDmax)				302											
UNEXPLAINED RECORDS				0											
0<AD<1kBq & MD>0				0											
AD=0 & MD>0				0											
AD<0 & MD >0				0											
2-SEC COUNT PERIODS				16,970											
2-SEC RECORDS WITH SORTS				581											
2-SEC RECORDS WITHOUT SORTS				16,389											
TOTAL PROCESS RECORDS (2-s SORTS and 20-s PERIODS)				2,278											
NONPROCESSING RECORDS (Test, calibration, etc)				11											
2-SEC SORT DETECTORS															
1 DET		421 72.5%	5 DET		2	0.3%									
2 DET		127 21.9%	6 DET		0	0.0%									
3 DET		26 4.5%	7 DET		0	0.0%									
4 DET		5 0.9%	8 DET		0	0.0%									
AVERAGE TIME BETWEEN 2-SEC SORTS				80.6 sec											
FREQUENCY DISTRIBUTIONS															
1-GATESORTS		ACT_ND		NUM		SPEC_A FREQ%		ACT_P		NUM		FREQ%			
DET SORTS		FREQ%		(Bq)		(#)		(Bq/kg)		(kBq)		(#)		FREQ%	
1 4		1.3%		-14000		0		-250 0.0%		4		29		5.0%	
2 32		10.6%		-12000		2		-215 0.1%		8		255		43.9%	
3 50		16.5%		-10000		3		-179 0.2%		12		87		15.0%	
4 48		15.8%		-8000		3		-143 0.2%		16		60		10.3%	
5 61		20.1%		-6000		4		-107 0.2%		20		34		5.9%	
6 55		18.2%		-4000		19		-72 1.1%		24		18		3.1%	
7 41		13.5%		-2000		87		-36 5.1%		28		14		2.4%	
8 12		4.0%		0		412		0 24.1%		32		13		2.2%	
TOTAL 303				2000		280		36 16.4%		36		9		1.5%	
				4000		246		72 14.4%		40		6		1.0%	
				6000		222		107 13.0%		44		4		0.7%	
2-GATESORTS				8000		159		143 9.3%		48		5		0.9%	
DET SORTS		FREQ%		10000		89		179 5.2%		52		5		0.9%	
9 19		6.8%		12000		64		215 3.7%		56		3		0.5%	
10 38		13.7%		14000		36		250 2.1%		60		2		0.3%	
11 50		18.0%		16000		27		286 1.6%		64		2		0.3%	
12 53		19.1%		18000		29		322 1.7%		68		1		0.2%	
13 51		18.3%		20000		25		358 1.5%		72		3		0.5%	
14 38		13.7%		22000		1		394 0.1%		76		0		0.0%	
15 29		10.4%		24000		0		429 0.0%		80		3		0.5%	
TOTAL 278				26000		0		465 0.0%		84		1		0.2%	
				>28000		0		0 0.0%		>84		27		4.6%	
				TOTAL		1,708				TOTAL		581			
EVENT TYPES		HPE		562		MPE		594		DISE		18844			



SORTER 2				25-Mar-94				
SORTER SOIL DENSITY		1.20 tons/m ³		BACKGROUND		0.73 ± 0.02 c/s		
SOIL		CONTAMINATED		CLEAN		TOTAL		
MASS TOTAL		10.6 tons		83.1 tons		93.6 tons		
MAXIMUM/SORT		58.1 kg		55.9 kg				
MINIMUM/SORT		0.7 kg		41.2 kg				
VOLUME IN-GROUND		8.4 yd ³		65.8 yd ³		74.2 yd ³		
WEIGHT RECOVERY (CLEAN/(HOT+CLEAN))		88.7%						
ACTIVITY		PARTICLE		DISPERSED + PARTICLE				
		HOT		CLEAN				
TOTAL		11,325 kBq		8,674 kBq		6,896 kBq		
MAXIMUM/SORT		2,156 kBq		991 kBq		20 kBq		
MINIMUM/SORT		2 kBq		(6,087)Bq		-11 kBq		
SPECIFIC ACTIVITY				821 Bq/kg		83 Bq/kg		
SORTS				1,675		UNEXP PAUSE		
20-SEC PROCESS PERIODS						TIME TIME		
ALL 80 ELEMENTS SORT (MD>0&MND=0)		180				09:38 07:36		
NONE (AD=0 & MD=0 & MND>0)		1,178				12:35 09:32		
SOME (AD>0&0<MD<MNDmax&MND<MNDmax)		317				12:35		
UNEXPLAINED RECORDS		0						
0<AD<1kBq & MD>0		2						
AD=0 & MD>0		0						
AD<0 & MD >0		1						
2-SEC COUNT PERIODS				16,750				
2-SEC RECORDS WITH SORTS		491						
2-SEC RECORDS WITHOUT SORTS		16,259						
TOTAL PROCESS RECORDS (2-s SORTS and 20-s PERIODS)				2,166				
NONPROCESSING RECORDS (Test, calibration, etc)				7				
2-SEC SORT DETECTORS								
1 DET		356	72.5%	5 DET	0	0.0%		
2 DET		112	22.8%	6 DET	0	0.0%		
3 DET		20	4.1%	7 DET	0	0.0%		
4 DET		3	0.6%	8 DET	0	0.0%		
AVERAGE TIME BETWEEN 2-SEC SORTS		94.1 sec						
FREQUENCY DISTRIBUTIONS								
1-GATE SORTS		ACT_ND	NUM	SPEC_A	FREQ%	ACT_P	NUM	FREQ%
		(Bq)	(#)	(Bq/kg)		(kBq)	(#)	
DET	SORTS	FREQ%						
1	12	5.0%	-14000	0	-250	0.0%	4	9.4%
2	47	19.4%	-12000	0	-215	0.0%	8	45.2%
3	44	18.2%	-10000	4	-179	0.2%	12	16.9%
4	47	19.4%	-8000	3	-143	0.2%	16	7.3%
5	47	19.4%	-6000	0	-107	0.0%	20	4.7%
6	33	13.6%	-4000	9	-72	0.5%	24	2.6%
7	9	3.7%	-2000	41	-36	2.4%	28	2.0%
8	3	1.2%	0	350	0	20.8%	32	1.0%
TOTAL	242		2000	270	36	16.1%	36	1.2%
			4000	348	72	20.7%	40	0.8%
			6000	225	107	13.4%	44	0.6%
2-GATE SORTS			8000	146	143	8.7%	48	1.4%
DET	SORTS	FREQ%						
9	30	12.0%	10000	89	179	5.3%	52	0.2%
10	51	20.5%	12000	43	215	2.6%	56	0.8%
11	58	23.3%	14000	36	250	2.1%	60	0.4%
12	43	17.3%	16000	28	286	1.7%	64	0.8%
13	38	15.3%	18000	42	322	2.5%	68	0.6%
14	23	9.2%	20000	45	358	2.7%	72	0.0%
15	6	2.4%	22000	3	394	0.2%	76	0.2%
TOTAL	249		24000	0	429	0.0%	80	0.4%
			26000	0	465	0.0%	84	0.2%
			>28000	0	0	0.0%	>84	3.1%
			TOTAL	1,682			TOTAL	491
EVENT TYPES		HPE	496	MPE	501	DISE	14120	

SORTER 2



WORK HISTORY - JA SOIL CLEANUP PLANT

26-Mar-94

WORK DAY START	05:00 AM	WORK DAY END	15:30 PM
LUNCH START	11:00 AM	TIME LOST DURING LUNCH	0.5 HR

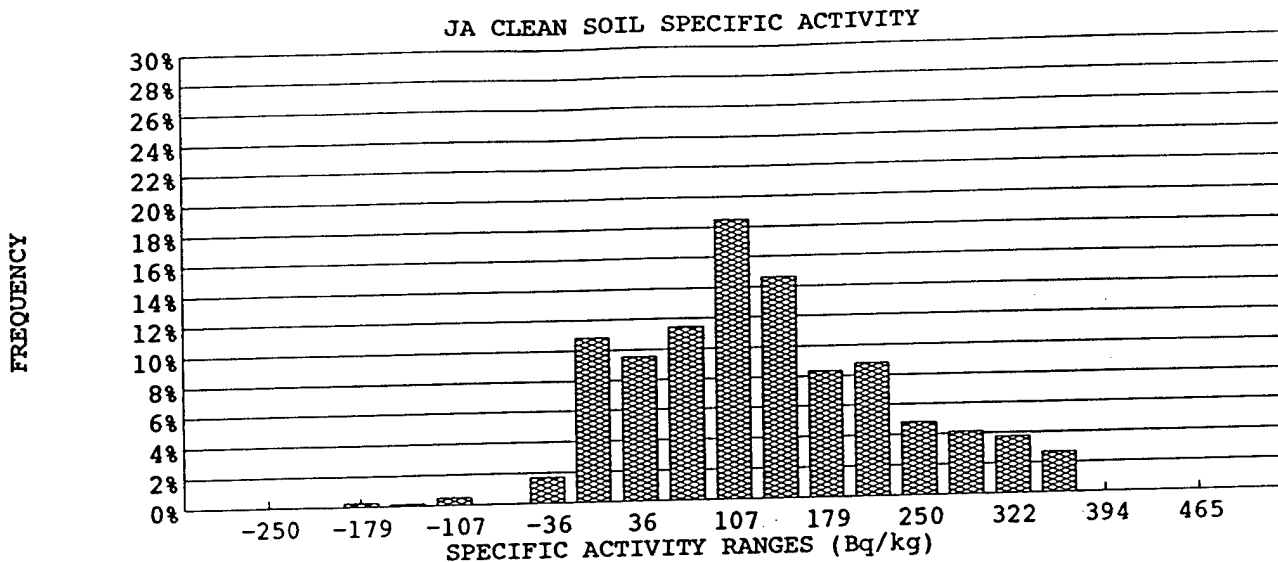
	SORTER 1	SORTER 2	SORTER 3	SORTER 4	TOTAL (sorter hours)
WORK HOURS	10.0 hr	10.0 hr	10.0 hr	10.0 hr	40.0 hr
SORTER AVAILABLE HOURS	5.2 hr	5.2 hr	0.0 hr	0.0 hr	10.5 hr
SORTER START-UP	05:45	05:45	NA	NA	
START SOIL PROCESSING	06:04	06:04	NA	NA	
TIME REQUIRED TO START-UP	0.3 hr	0.3 hr	0.0 hr	0.0 hr	0.7 hr
SORTER SHUT-DOWN	11:00	11:00	NA	NA	
END SOIL PROCESSING	10:38	10:39	NA	NA	
TIME REQUIRED TO SHUT DOWN	0.4 hr	0.3 hr	0.0 hr	0.0 hr	0.7 hr
ACTUAL PROCESS HOURS	4.6 hr	4.6 hr	0.0 hr	0.0 hr	9.2 hr
DOWN-TIME	0.7 hr	0.7 hr	0.0 hr	0.0 hr	1.3 hr
SYSTEM PAUSE	0.0 hr	0.0 hr	0.0 hr	0.0 hr	0.0 hr
SORTER NONAVAILABLE TIME	4.8 hr	4.8 hr	10.0 hr	10.0 hr	29.5 hr
AUTHORIZED DELAY TIME	0.0 hr	0.0 hr	10.0 hr	10.0 hr	20.0 hr
PLANT PERFORMANCE					87.1%
PRODUCTIVITY					22.9%

PRODUCTIVITY

Date	26-Mar-94	Excused Delays for day (sorter-hrs)	20 hr
Contract day (from 6 Sep)	162	Excused delays for contract (sorter-hrs)	2,623 hr
Current Contract week	27	Excused delay days (plant-days)	66 days
		Excused delay months (plant-month)	2.52 months
Soil production for Day	92 MT		
Cumulative Soil Production for Week	974 MT	Percent of contract completed	37.8%
Total Soil production for contract		Tons Ahead or Behind Schedule	1,835 MT
Since 6 Sep 93	36,168 MT	Days ahead or behind schedule	6 days
Since 6 Aug 93	37,759 MT		
Total Soil production for project	64,046 MT		

MT = metric tons

26-Mar-94									
SORTER 1		SORTER SOIL DENSITY		1.20 tons/m ³		BACKGROUND		0.63 ± 0.02 c/s	
SOIL		CONTAMINATED		CLEAN		TOTAL			
MASS TOTAL		3.3 tons		42.7 tons		45.9 tons			
MAXIMUM/SORT		55.9 kg		55.9 kg					
MINIMUM/SORT		0.7 kg		51.7 kg					
VOLUME IN-GROUND		2.6 yd ³		33.8 yd ³		36.4 yd ³			
WEIGHT RECOVERY (CLEAN/(HOT+CLEAN))		92.9%							
ACTIVITY		PARTICLE		HOT		DISPERSED + PARTICLE CLEAN			
TOTAL		4,225 kBq		3,152 kBq		5,252 kBq			
MAXIMUM/SORT		303 kBq		164 kBq		20 kBq			
MINIMUM/SORT		3 kBq		0 Bq		-11 kBq			
SPECIFIC ACTIVITY				966 Bq/kg		123 Bq/kg			
SORTS				822		UNEXP		PAUSE	
20-SEC PROCESS PERIODS						TIME		TIME	
ALL 80 ELEMENTS SORT (MD>0&MND=0)		52				None		None	
NONE (AD=0 & MD=0 & MND>0)		490							
SOME (AD>0&0<MD<MNDmax&MND<MNDmax)		280							
UNEXPLAINED RECORDS		0							
0<AD<1kBq & MD>0		0							
AD=0 & MD>0		0							
AD<0 & MD >0		0							
2-SEC COUNT PERIODS				8,220					
2-SEC RECORDS WITH SORTS		247							
2-SEC RECORDS WITHOUT SORTS		7,973							
TOTAL PROCESS RECORDS (2-s SORTS and 20-s PERIODS)				1,069					
NONPROCESSING RECORDS (Test, calibration, etc)				6					
2-SEC SORT DETECTORS									
1 DET		180	72.9%	5 DET	1	0.4%			
2 DET		54	21.9%	6 DET	0	0.0%			
3 DET		11	4.5%	7 DET	0	0.0%			
4 DET		1	0.4%	8 DET	0	0.0%			
AVERAGE TIME BETWEEN 2-SEC SORTS		91.3 sec							
FREQUENCY DISTRIBUTIONS									
1-GATE SORTS		ACT_ND	NUM	SPEC_A	FREQ%	ACT_P	NUM	FREQ%	
DET	SORTS	(Bq)	(#)	(Bq/kg)		(kBq)	(#)		
1	4	3.2%	-14000	0	-250	0.0%	4	12	4.9%
2	13	10.3%	-12000	0	-215	0.0%	8	116	47.0%
3	8	6.3%	-10000	2	-179	0.2%	12	38	15.4%
4	23	18.3%	-8000	1	-143	0.1%	16	27	10.9%
5	29	23.0%	-6000	4	-107	0.5%	20	14	5.7%
6	20	15.9%	-4000	0	-72	0.0%	24	8	3.2%
7	26	20.6%	-2000	14	-36	1.7%	28	4	1.6%
8	3	2.4%	0	90	0	10.9%	32	3	1.2%
TOTAL	126		2000	79	36	9.5%	36	7	2.8%
2-GATE SORTS			4000	95	72	11.5%	40	1	0.4%
DET	SORTS	FREQ%	8000	153	107	18.5%	44	4	1.6%
9	7	5.8%	10000	69	143	14.6%	48	1	0.4%
10	14	11.6%	12000	73	179	8.3%	52	0	0.0%
11	15	12.4%	14000	40	215	8.8%	56	0	0.0%
12	32	26.4%	16000	34	250	4.8%	60	0	0.0%
13	24	19.8%	18000	31	286	4.1%	64	0	0.0%
14	15	12.4%	20000	22	322	3.7%	68	3	1.2%
15	14	11.6%	22000	0	358	2.7%	72	0	0.0%
TOTAL	121		24000	0	394	0.0%	76	0	0.0%
			26000	0	429	0.0%	80	0	0.0%
			>28000	0	465	0.0%	84	1	0.4%
				0	0	0.0%	>84	8	3.2%
			TOTAL	828			TOTAL	247	
EVENT TYPES		HPE	248	MPE	369	DISE	4054		



SORTER 2

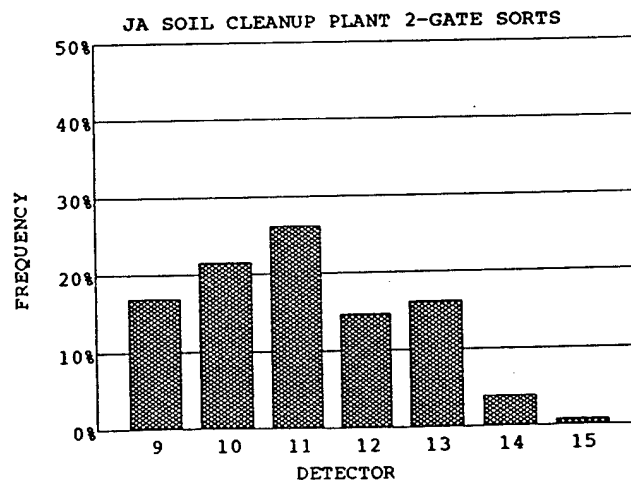
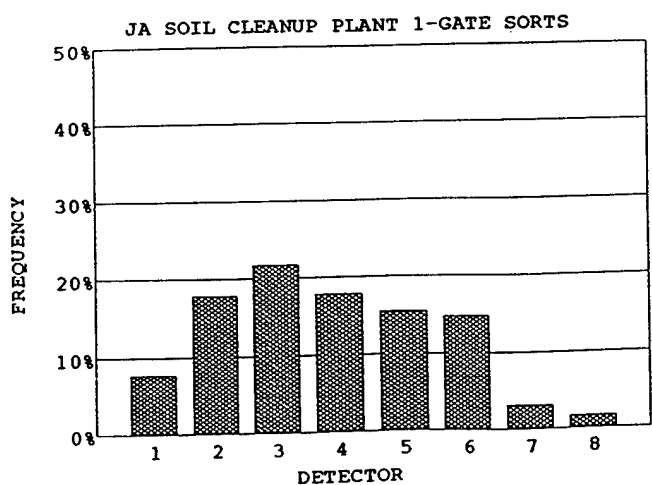
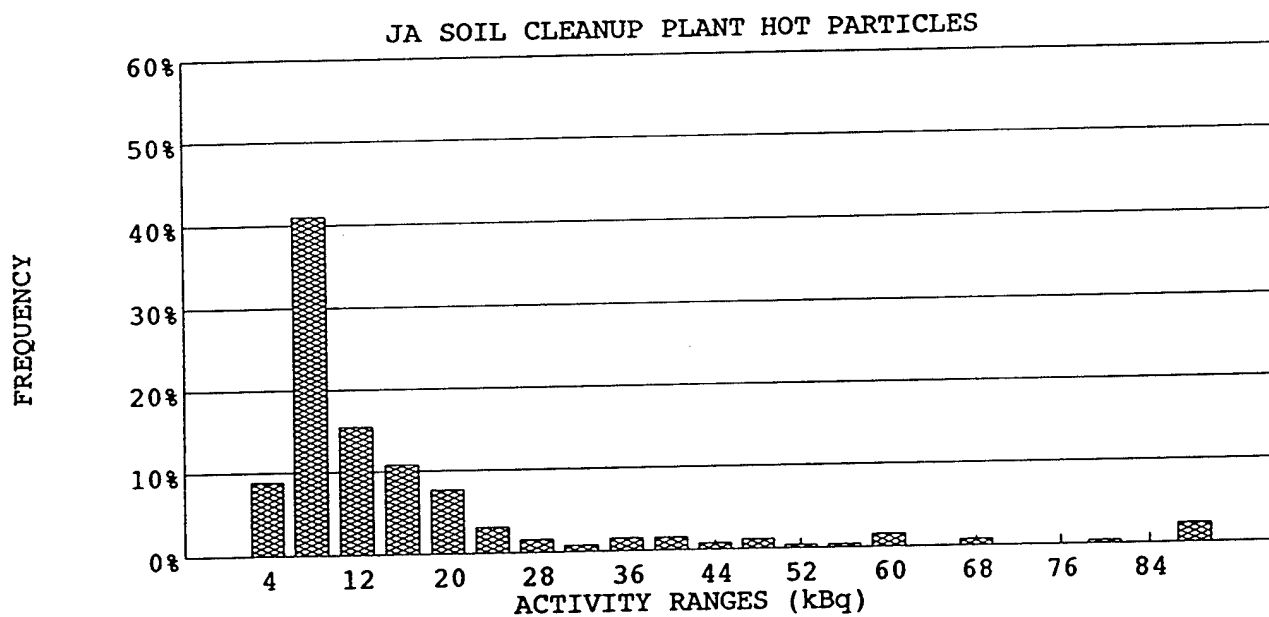
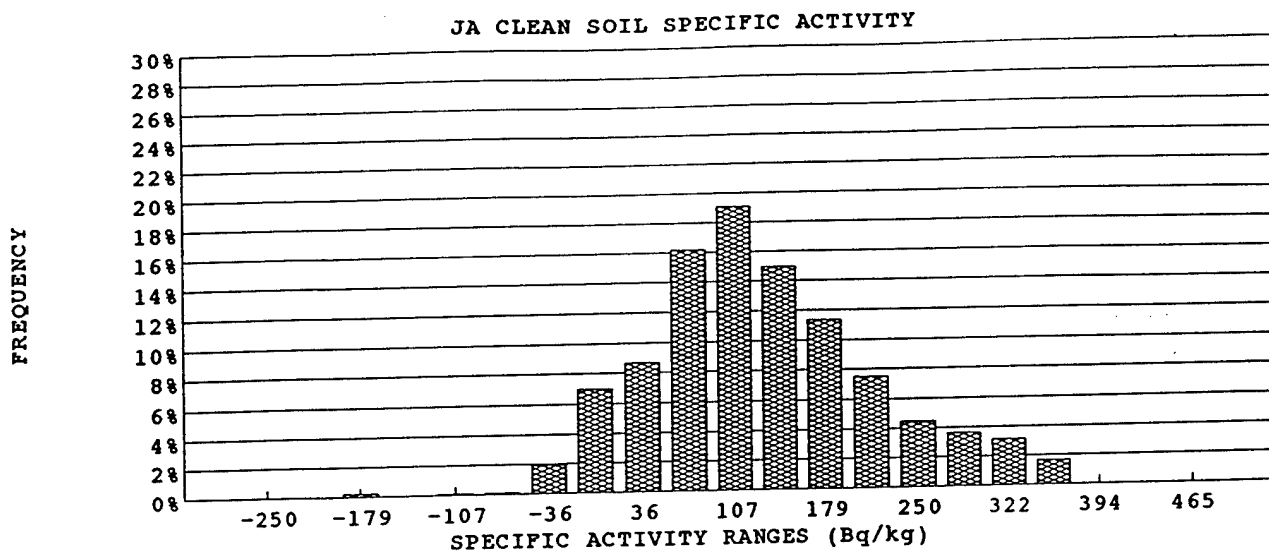
26-Mar-94

SORTER 2		BACKGROUND		0.71 ± 0.02 c/s
SORTER SOIL DENSITY		1.20 tons/m ³		
SOIL	CONTAMINATED	CLEAN	TOTAL	
MASS TOTAL	1.1 tons	45.0 tons	46.1 tons	
MAXIMUM/SORT	55.9 kg	55.9 kg		
MINIMUM/SORT	0.7 kg	50.3 kg		
VOLUME IN-GROUND	0.9 yd ³	35.7 yd ³	36.6 yd ³	
WEIGHT RECOVERY (CLEAN/(HOT+CLEAN))		97.5%		

ACTIVITY		DISPERSED + PARTICLE		
	PARTICLE	HOT	CLEAN	
TOTAL	4,305 kBq	2,198 kBq	5,193 kBq	
MAXIMUM/SORT	399 kBq	278 kBq	20 kBq	
MINIMUM/SORT	3 kBq	0 Bq	-10 kBq	
SPECIFIC ACTIVITY		1,940 Bq/kg	115 Bq/kg	

SORTS		825	UNEXP	PAUSE
20-SEC PROCESS PERIODS			TIME	TIME
ALL 80 ELEMENTS SORT (MD>0&MND=0)		14	None	None
NONE (AD=0 & MD=0 & MND>0)		554		
SOME (AD>0&0<MD<MNDmax&MND<MNDmax)		257		
UNEXPLAINED RECORDS		0		
0<AD<1kBq & MD>0		0		
AD=0 & MD>0		0		
AD<0 & MD >0		0		
2-SEC COUNT PERIODS		8,250		
2-SEC RECORDS WITH SORTS		259		
2-SEC RECORDS WITHOUT SORTS		7,991		
TOTAL PROCESS RECORDS (2-s SORTS and 20-s PERIODS)		1,084		
NONPROCESSING RECORDS (Test, calibration, etc)		4		
2-SEC SORT DETECTORS				
1 DET	196 75.7%	5 DET	0	0.0%
2 DET	55 21.2%	6 DET	0	0.0%
3 DET	8 3.1%	7 DET	0	0.0%
4 DET	0 0.0%	8 DET	0	0.0%
AVERAGE TIME BETWEEN 2-SEC SORTS		84.2 sec		

FREQUENCY DISTRIBUTIONS									
1-GATE SORTS			ACT_ND	NUM	SPEC_A	FREQ%	ACT_P	NUM	FREQ%
DET	SORTS	FREQ%	(Bq)	(#)	(Bq/kg)		(kBq)	(#)	
1	10	7.8%	-14000	0	-250	0.0%	4	23	8.9%
2	23	17.8%	-12000	0	-215	0.0%	8	106	40.9%
3	28	21.7%	-10000	2	-179	0.2%	12	40	15.4%
4	23	17.8%	-8000	0	-143	0.0%	16	28	10.8%
5	20	15.5%	-6000	1	-107	0.1%	20	20	7.7%
6	19	14.7%	-4000	1	-72	0.1%	24	8	3.1%
7	4	3.1%	-2000	16	-36	1.9%	28	4	1.5%
8	2	1.6%	0	58	0	7.0%	32	2	0.8%
TOTAL	129		2000	72	36	8.7%	36	4	1.5%
2-GATE SORTS			4000	134	72	16.2%	40	4	1.5%
DET	SORTS	FREQ%	6000	158	107	19.1%	44	2	0.8%
9	22	16.9%	8000	124	143	15.0%	48	3	1.2%
10	28	21.5%	10000	94	179	11.3%	52	1	0.4%
11	34	26.2%	12000	62	215	7.5%	56	1	0.4%
12	19	14.6%	14000	37	250	4.5%	60	4	1.5%
13	21	16.2%	16000	30	286	3.6%	64	0	0.0%
14	5	3.8%	18000	26	322	3.1%	68	2	0.8%
15	1	0.8%	20000	14	358	1.7%	72	0	0.0%
TOTAL	130		22000	0	394	0.0%	76	0	0.0%
			24000	0	429	0.0%	80	1	0.4%
			26000	0	465	0.0%	84	0	0.0%
			>28000	0	0	0.0%	>84	6	2.3%
TOTAL			829				TOTAL	259	
EVENT TYPES			HPE	266	MPE	264	DISE	1090	



WORK HISTORY - JA SOIL CLEANUP PLANT

28-Mar-94

WORK DAY START	06:00 AM	WORK DAY END	16:30 PM
LUNCH START	11:00 AM	TIME LOST DURING LUNCH	0.0 HR

	SORTER 1	SORTER 2	SORTER 3	SORTER 4	TOTAL (sorter hours)
WORK HOURS	10.5 hr	10.5 hr	10.5 hr	10.5 hr	42.0 hr
SORTER AVAILABLE HOURS	10.5 hr	10.5 hr	0.0 hr	0.0 hr	21.0 hr
SORTER START-UP	06:00	06:00	NA	NA	
START SOIL PROCESSING	06:41	06:41	NA	NA	
TIME REQUIRED TO START-UP	0.7 hr	0.7 hr	0.0 hr	0.0 hr	1.4 hr
SORTER SHUT-DOWN	16:30	16:30	NA	NA	
END SOIL PROCESSING	16:10	16:11	NA	NA	
TIME REQUIRED TO SHUT DOWN	0.3 hr	0.3 hr	0.0 hr	0.0 hr	0.6 hr
ACTUAL PROCESS HOURS	8.5 hr	9.3 hr	0.0 hr	0.0 hr	17.8 hr
DOWN-TIME	2.0 hr	1.2 hr	0.0 hr	0.0 hr	3.2 hr
SYSTEM PAUSE	1.0 hr	0.3 hr	0.0 hr	0.0 hr	1.3 hr
SORTER NONAVAILABLE TIME	0.0 hr	0.0 hr	10.0 hr	10.0 hr	20.0 hr
AUTHORIZED DELAY TIME	0.0 hr	0.0 hr	10.0 hr	10.0 hr	20.0 hr
PLANT PERFORMANCE					84.7%
PRODUCTIVITY					42.3%

PRODUCTIVITY

Date	28-Mar-94	Excused Delays for day (sorter-hrs)	20 hr
Contract day (from 6 Sep)	163	Excused delays for contract (sorter-hrs)	2,643 hr
Current Contract week	28	Excused delay days (plant-days)	66 days
		Excused delay months (plant-month)	2.54 months
Soil production for Day	179 MT	Percent of contract completed	37.9%
Cumulative Soil Production for Week	179 MT	Tons Ahead or Behind Schedule	1,856 MT
Total Soil production for contract		Days ahead or behind schedule	6 days
Since 6 Sep 93	36,347 MT		
Since 6 Aug 93	37,938 MT		
Total Soil production for project	64,225 MT		

MT = metric tons

SORTER 1

28-Mar-94

SORTER SOIL DENSITY		1.20 tons/m ³	BACKGROUND		0.64 ± 0.02 c/s
SOIL	CONTAMINATED		CLEAN	TOTAL	
MASS TOTAL	31.8 tons		53.7 tons	85.5 tons	
MAXIMUM/SORT	58.1 kg		55.9 kg		
MINIMUM/SORT	0.7 kg		44.7 kg		
VOLUME IN-GROUND	25.2 yd ³		42.6 yd ³	67.8 yd ³	
WEIGHT RECOVERY (CLEAN/(HOT+CLEAN))		62.8%			

ACTIVITY

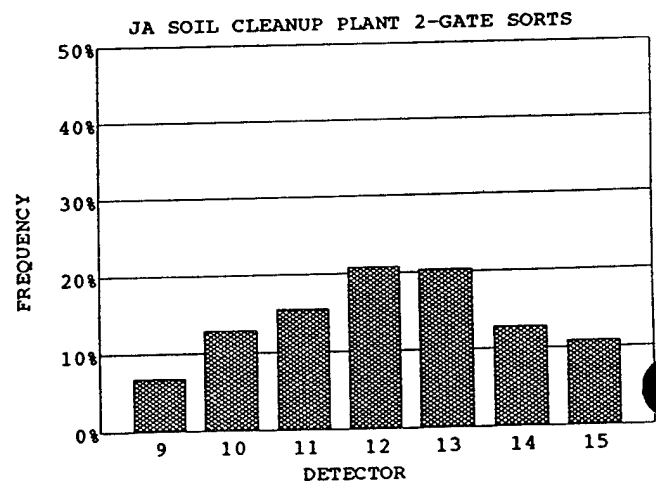
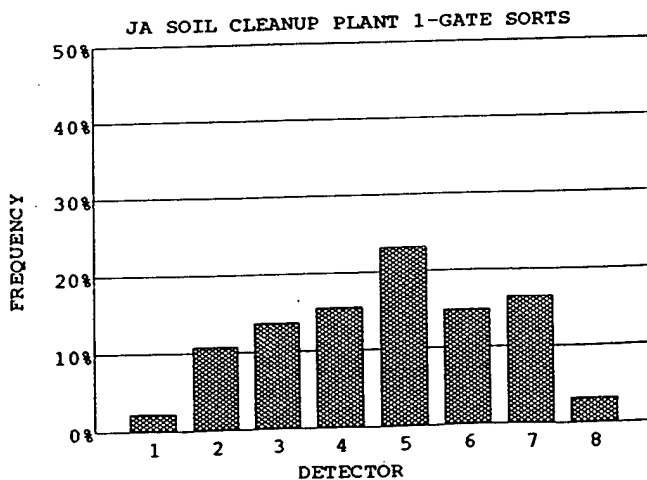
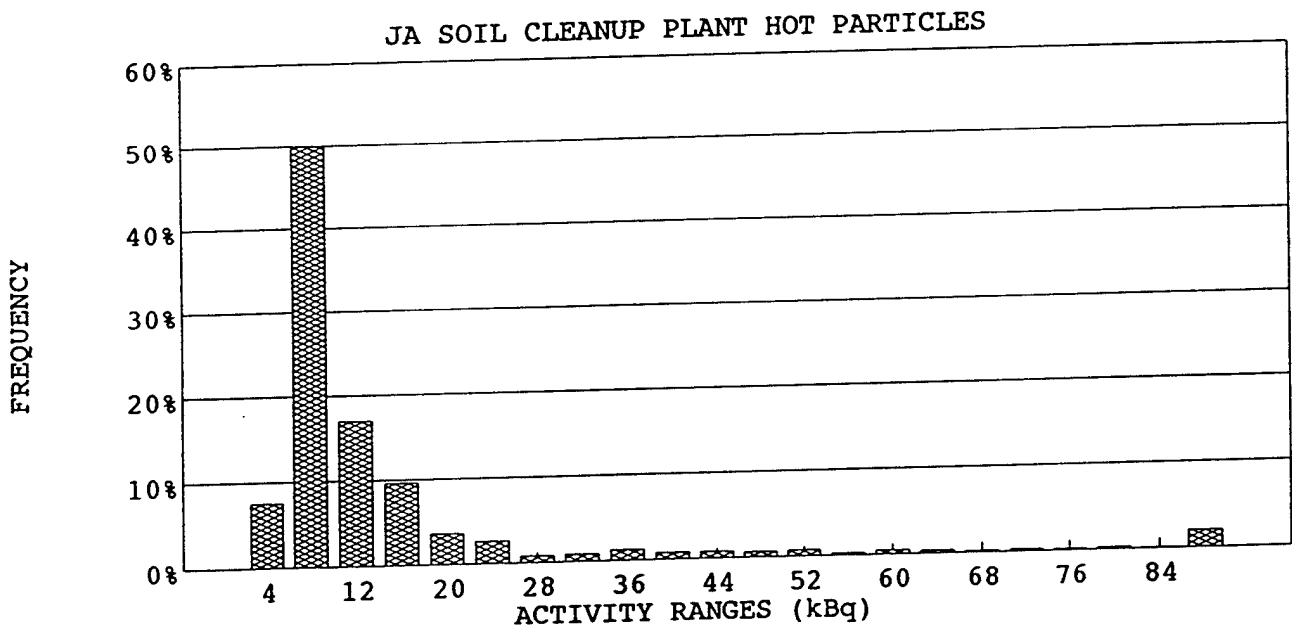
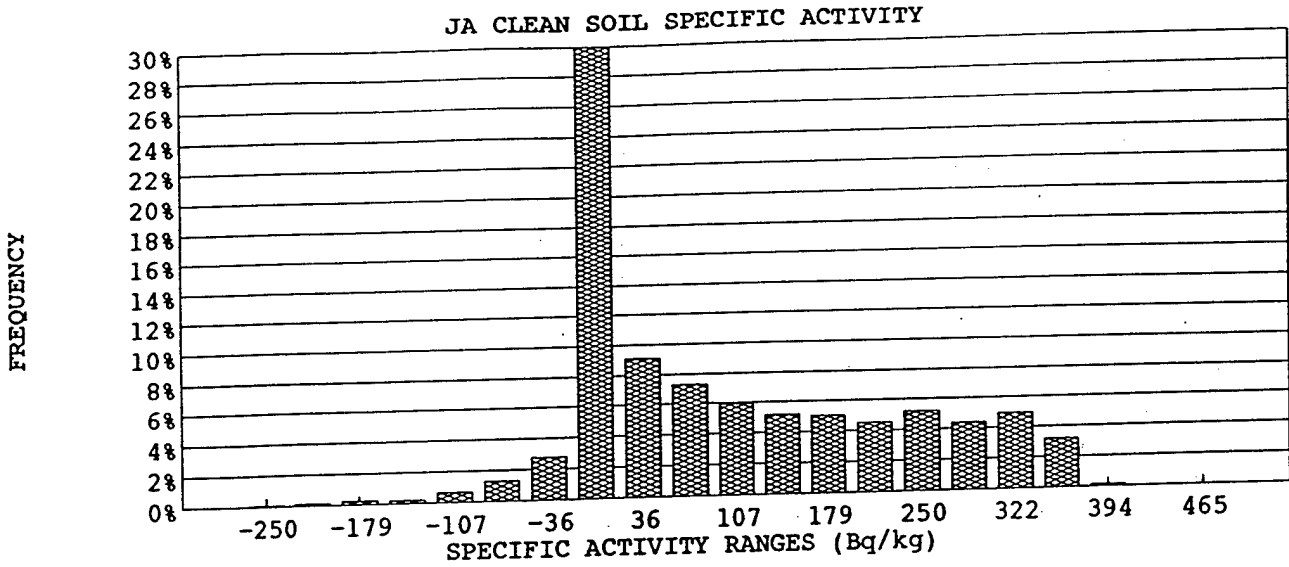
	PARTICLE	DISPERSED + PARTICLE	
		HOT	CLEAN
TOTAL	23,400 kBq	27,280 kBq	6,825 kBq
MAXIMUM/SORT	1,850 kBq	1,076 kBq	20 kBq
MINIMUM/SORT	3 kBq	(17,159)Bq	-14 kBq
SPECIFIC ACTIVITY		858 Bq/kg	127 Bq/kg

SORTS

20-SEC PROCESS PERIODS		1,529	UNEXP	PAUSE
ALL 80 ELEMENTS SORT (MD>0&MND=0)		555	TIME	TIME
NONE (AD=0 & MD=0 & MND>0)		570	08:32	08:28
SOME (AD>0&0<MD<MNDmax&MND<MNDmax)		404	10:17	10:13
UNEXPLAINED RECORDS		0	10:19	10:17
0<AD<1kBq & MD>0		0	13:01	11:18
AD=0 & MD>0		1	13:02	12:06
AD<0 & MD >0		4		12:22
2-SEC COUNT PERIODS		15,290		13:01
2-SEC RECORDS WITH SORTS		1,426		13:40
2-SEC RECORDS WITHOUT SORTS		13,864		
TOTAL PROCESS RECORDS (2-s SORTS and 20-s PERIODS)		2,955		
NONPROCESSING RECORDS (Test, calibration, etc)		6		
2-SEC SORT DETECTORS				
1 DET	1,053 73.8%	5 DET	0	0.0%
2 DET	303 21.2%	6 DET	0	0.0%
3 DET	63 4.4%	7 DET	0	0.0%
4 DET	7 0.5%	8 DET	0	0.0%
AVERAGE TIME BETWEEN 2-SEC SORTS		29.0 sec		

FREQUENCY DISTRIBUTIONS

1-GATESORTS			ACT_ND	NUM	SPEC_A	FREQ%	ACT_P	NUM	FREQ%
DET	SORTS	FREQ%	(Bq)	(#)	(Bq/kg)		(kBq)	(#)	
1	17	2.3%	-14000	1	-250	0.1%	4	108	7.6%
2	81	10.8%	-12000	2	-215	0.1%	8	712	49.9%
3	103	13.7%	-10000	4	-179	0.3%	12	242	17.0%
4	117	15.6%	-8000	3	-143	0.2%	16	138	9.7%
5	174	23.1%	-6000	10	-107	0.7%	20	52	3.6%
6	112	14.9%	-4000	20	-72	1.3%	24	38	2.7%
7	124	16.5%	-2000	42	-36	2.7%	28	11	0.8%
8	24	3.2%	0	611	0	39.8%	32	12	0.8%
TOTAL	752		2000	140	36	9.1%	36	18	1.3%
			4000	112	72	7.3%	40	11	0.8%
			6000	91	107	5.9%	44	11	0.8%
2-GATESORTS			8000	79	143	5.1%	48	9	0.6%
DET	SORTS	FREQ%	10000	77	179	5.0%	52	10	0.7%
9	46	6.8%	12000	69	215	4.5%	56	3	0.2%
10	87	12.9%	14000	80	250	5.2%	60	7	0.5%
11	105	15.6%	16000	67	286	4.4%	64	4	0.3%
12	140	20.8%	18000	76	322	5.0%	68	2	0.1%
13	137	20.3%	20000	49	358	3.2%	72	3	0.2%
14	86	12.8%	22000	2	394	0.1%	76	2	0.1%
15	73	10.8%	24000	0	429	0.0%	80	3	0.2%
TOTAL	674		26000	0	465	0.0%	84	1	0.1%
			>28000	0	0	0.0%	>84	29	2.0%
			TOTAL	1,535			TOTAL	1,426	
EVENT TYPES	HPE	1,415	MPE	2786	DISE	41279			



SORTER 2

28-Mar-94

SORTER SOIL DENSITY		1.20 tons/m ³	BACKGROUND		0.73 ± 0.03 c/s
SOIL		CONTAMINATED	CLEAN	TOTAL	
MASS TOTAL		26.7 tons	66.8 tons	93.5 tons	
MAXIMUM/SORT		58.1 kg	55.9 kg		
MINIMUM/SORT		0.7 kg	43.3 kg		
VOLUME IN-GROUND		21.2 yd ³	52.9 yd ³	74.1 yd ³	
WEIGHT RECOVERY (CLEAN/(HOT+CLEAN))		71.5%			

ACTIVITY

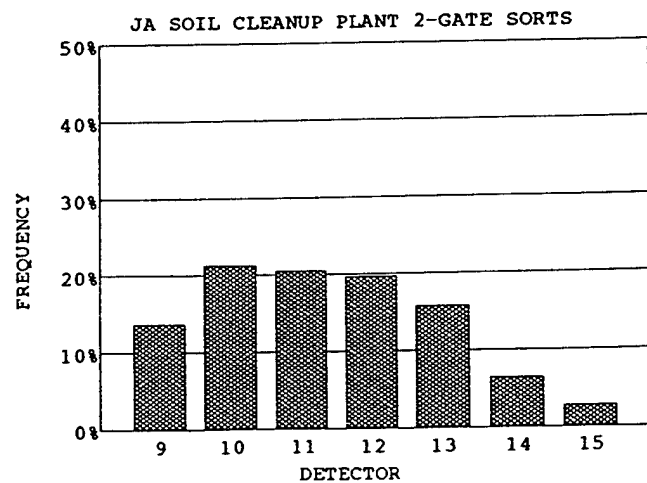
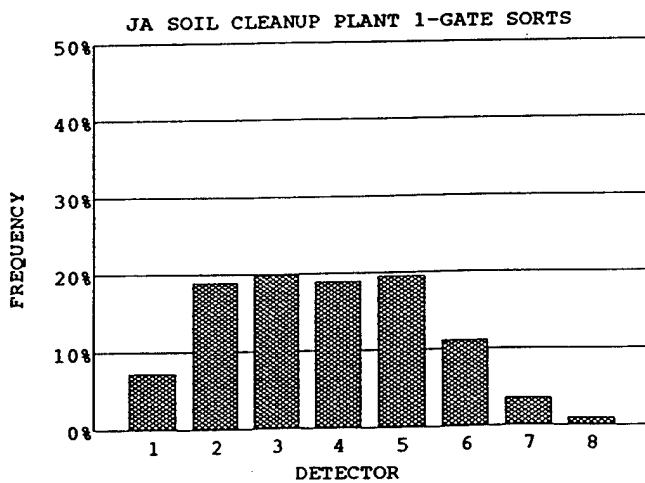
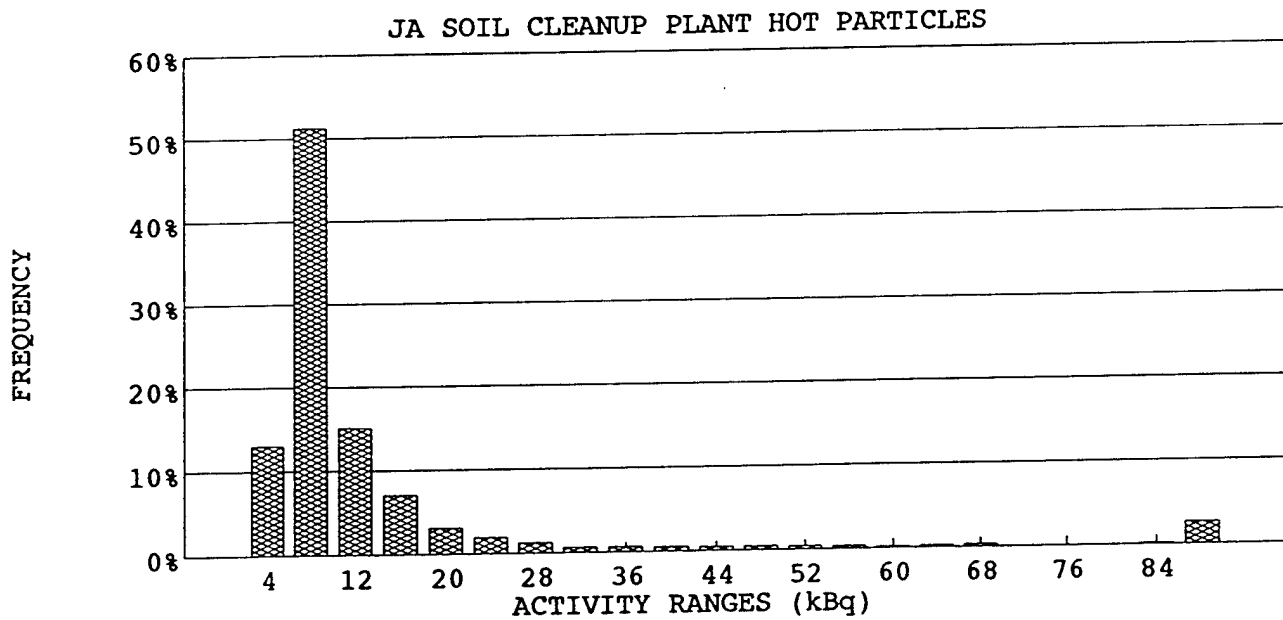
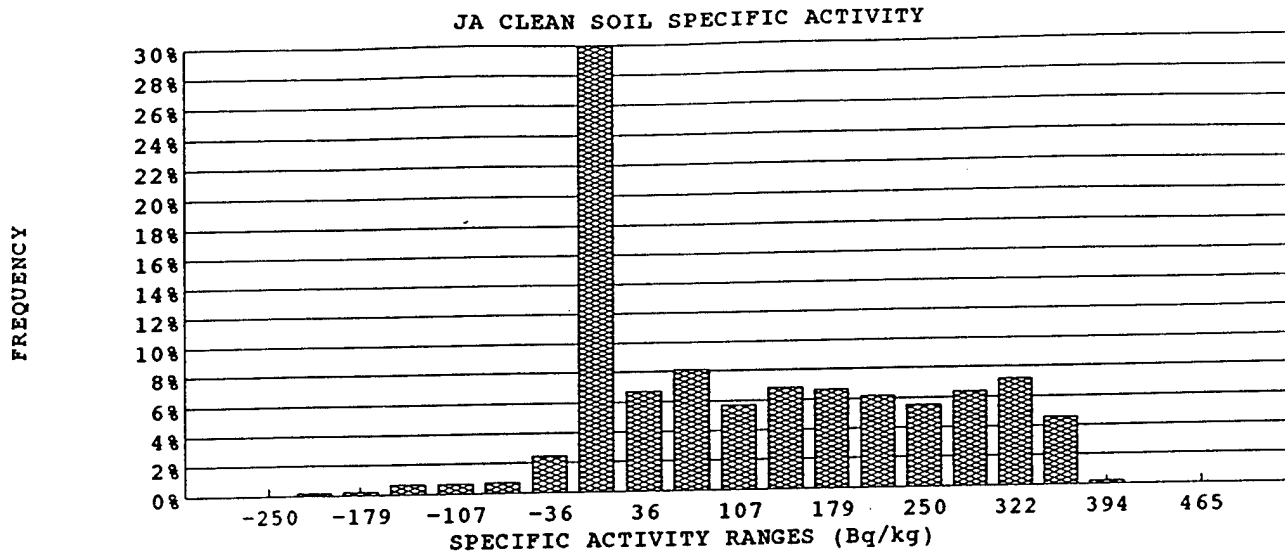
TOTAL MAXIMUM/SORT MINIMUM/SORT SPECIFIC ACTIVITY	DISPERSED + PARTICLE		
	PARTICLE	HOT	CLEAN
	40,961 kBq	30,232 kBq	9,842 kBq
	6,264 kBq	4,089 kBq	21 kBq
	2 kBq	(12,130)Bq	-12 kBq
		1,133 Bq/kg	147 Bq/kg

SORTS

20-SEC PROCESS PERIODS		1,672	UNEXP	PAUSE
ALL 80 ELEMENTS SORT (MD>0&MND=0)		454	TIME	TIME
NONE (AD=0 & MD=0 & MND>0)		610	08:32	08:28
SOME (AD>0&0<MD<MNDmax&MND<MNDmax)		608	08:41	08:42
UNEXPLAINED RECORDS		0	10:17	08:44
0<AD<1kBq & MD>0		1		10:13
AD=0 & MD>0		0		11:18
AD<0 & MD >0		2		
2-SEC COUNT PERIODS		16,720		
2-SEC RECORDS WITH SORTS		1,583		
2-SEC RECORDS WITHOUT SORTS		15,137		
TOTAL PROCESS RECORDS (2-s SORTS and 20-s PERIODS)		3,255		
NONPROCESSING RECORDS (Test, calibration, etc)		4		
2-SEC SORT DETECTORS				
1 DET	1,170 73.9%	5 DET	10	0.6%
2 DET	335 21.2%	6 DET	0	0.0%
3 DET	53 3.3%	7 DET	0	0.0%
4 DET	15 0.9%	8 DET	0	0.0%
AVERAGE TIME BETWEEN 2-SEC SORTS		28.6 sec		

FREQUENCY DISTRIBUTIONS

1-GATES SORTS			ACT_ND	NUM	SPEC_A	FREQ%	ACT_P	NUM	FREQ%
DET	SORTS	FREQ%	(Bq)	(#)	(Bq/kg)		(kBq)	(#)	
1	56	7.2%	-14000	0	-250	0.0%	4	206	13.0%
2	147	19.0%	-12000	3	-215	0.2%	8	811	51.2%
3	154	19.9%	-10000	4	-179	0.2%	12	239	15.1%
4	147	19.0%	-8000	11	-143	0.7%	16	112	7.1%
5	151	19.5%	-6000	11	-107	0.7%	20	49	3.1%
6	86	11.1%	-4000	12	-72	0.7%	24	31	2.0%
7	27	3.5%	-2000	41	-36	2.4%	28	20	1.3%
8	7	0.9%	0	523	0	31.2%	32	10	0.6%
TOTAL	775		2000	112	36	6.7%	36	10	0.6%
			4000	136	72	8.1%	40	9	0.6%
2-GATES SORTS			6000	95	107	5.7%	44	8	0.5%
DET	SORTS	FREQ%	8000	114	143	6.8%	48	8	0.5%
9	110	13.6%	10000	111	179	6.6%	52	6	0.4%
10	172	21.3%	12000	103	215	6.1%	56	5	0.3%
11	166	20.5%	14000	92	250	5.5%	60	3	0.2%
12	159	19.7%	16000	107	286	6.4%	64	4	0.3%
13	127	15.7%	18000	121	322	7.2%	68	5	0.3%
14	52	6.4%	20000	76	358	4.5%	72	0	0.0%
15	22	2.7%	22000	4	394	0.2%	76	1	0.1%
TOTAL	808		24000	0	429	0.0%	80	1	0.1%
			26000	0	465	0.0%	84	3	0.2%
			>28000	0	0	0.0%	>84	42	2.7%
			TOTAL	1,676			TOTAL	1,583	
EVENT TYPES			HPE	1,641	MPE	3269	DISE	33273	



WORK HISTORY - JA SOIL CLEANUP PLANT

29-Mar-94

WORK DAY START	06:00	AM	WORK DAY END	16:30	PM
LUNCH START	11:00	AM	TIME LOST DURING LUNCH	0.5	HR

	SORTER 1	SORTER 2	SORTER 3	SORTER 4	TOTAL (sorter hours)
WORK HOURS	10.0 hr	10.0 hr	10.0 hr	10.0 hr	40.0 hr
SORTER AVAILABLE HOURS	0.0 hr	0.0 hr	0.0 hr	0.0 hr	0.0 hr
SORTER START-UP	NA	NA	NA	NA	
START SOIL PROCESSING	NA	NA	NA	NA	
TIME REQUIRED TO START-UP	0.0 hr	0.0 hr	0.0 hr	0.0 hr	0.0 hr
SORTER SHUT-DOWN	NA	NA	NA	NA	
END SOIL PROCESSING	NA	NA	NA	NA	
TIME REQUIRED TO SHUT DOWN	0.0 hr	0.0 hr	0.0 hr	0.0 hr	0.0 hr
ACTUAL PROCESS HOURS	0.0 hr	0.0 hr	0.0 hr	0.0 hr	0.0 hr
DOWN-TIME	0.0 hr	0.0 hr	0.0 hr	0.0 hr	0.0 hr
SYSTEM PAUSE	0.0 hr	0.0 hr	0.0 hr	0.0 hr	0.0 hr
SORTER NONAVAILABLE TIME	10.0 hr	10.0 hr	10.0 hr	10.0 hr	40.0 hr
AUTHORIZED DELAY TIME	10.0 hr	10.0 hr	10.0 hr	10.0 hr	40.0 hr
PLANT PERFORMANCE					NA
PRODUCTIVITY					0.0%

PRODUCTIVITY

Date	29-Mar-94	Excused Delays for day (sorter-hrs)	40 hr
Contract day (from 6 Sep)	164	Excused delays for contract (sorter-hrs)	2,683 hr
Current Contract week	28	Excused delay days (plant-days)	67 days
		Excused delay months (plant-month)	2.58 months
Soil production for Day	0 MT		
Cumulative Soil Production for Week	179 MT	Percent of contract completed	37.9%
Total Soil production for contract		Tons Ahead or Behind Schedule	1,856 MT
Since 6 Sep 93	36,347 MT	Days ahead or behind schedule	6 days
Since 6 Aug 93	37,938 MT		
Total Soil production for project	64,225 MT		

MT = metric tons

WORK HISTORY - JA SOIL CLEANUP PLANT

30-Mar-94

WORK DAY START	06:00 AM	WORK DAY END	16:30 PM
LUNCH START	11:00 AM	TIME LOST DURING LUNCH	0.0 HR

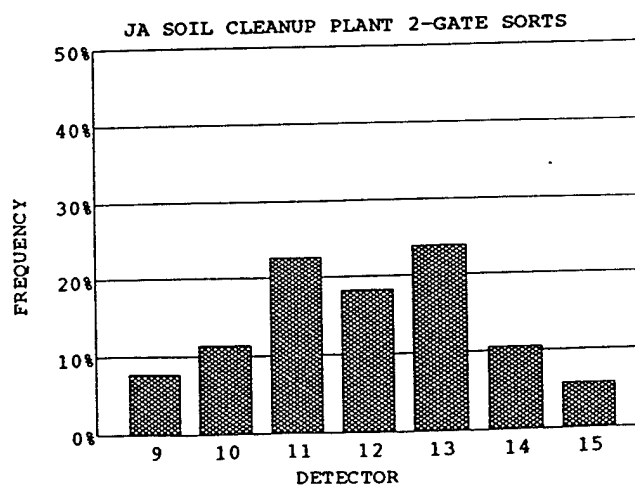
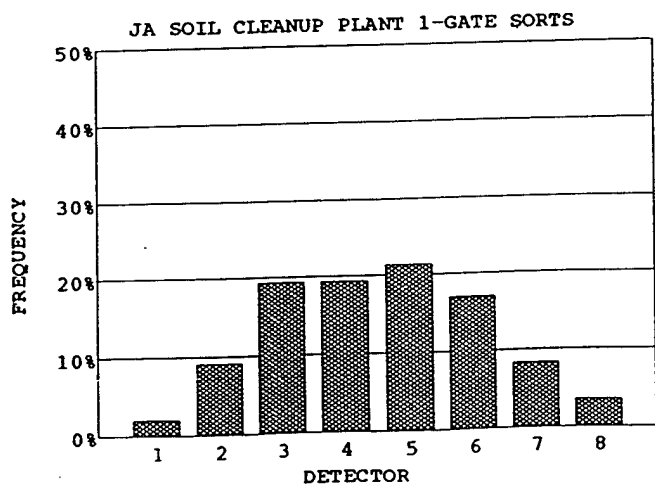
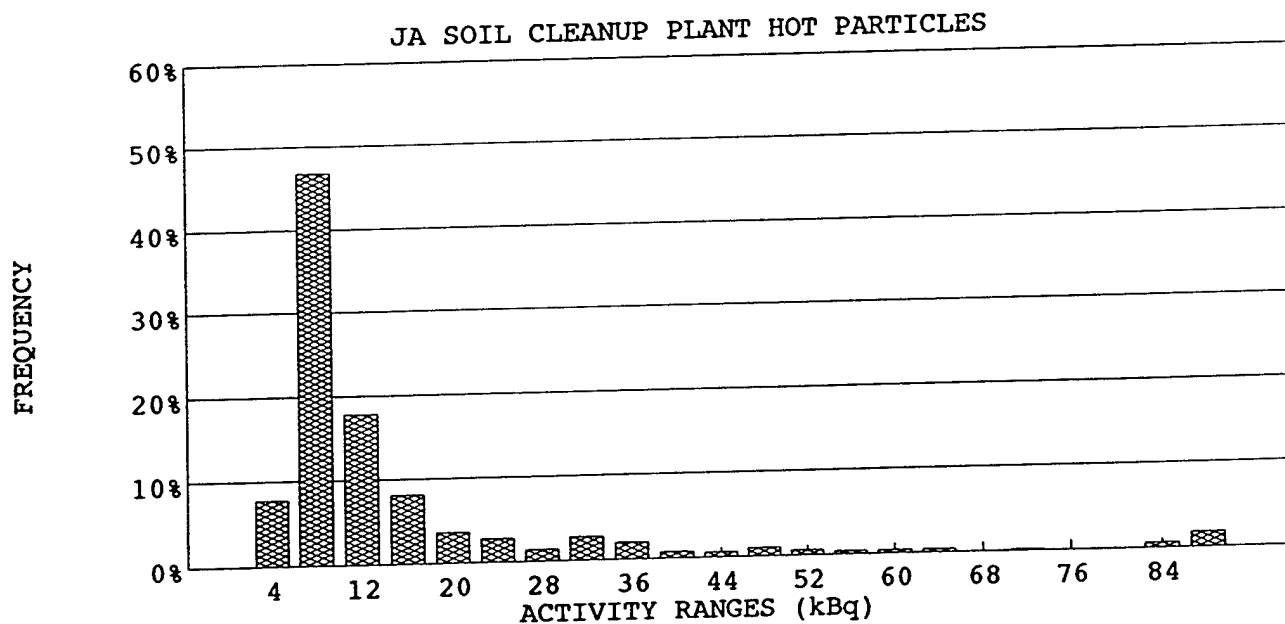
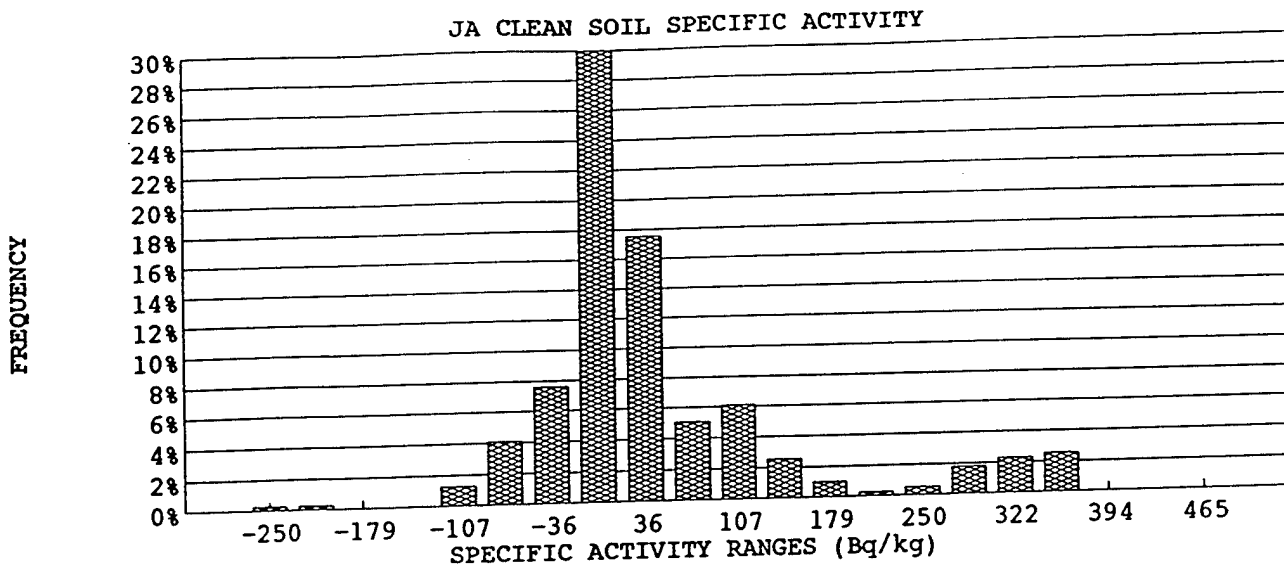
	SORTER 1	SORTER 2	SORTER 3	SORTER 4	TOTAL (sorter hours)
WORK HOURS	10.5 hr	10.5 hr	10.5 hr	10.5 hr	42.0 hr
SORTER AVAILABLE HOURS	3.0 hr	3.0 hr	7.3 hr	7.3 hr	20.5 hr
SORTER START-UP	06:00	06:00	08:30	08:30	
START SOIL PROCESSING	06:31	06:31	10:50	08:57	
TIME REQUIRED TO START-UP	0.5 hr	0.5 hr	2.3 hr	0.5 hr	3.9 hr
SORTER SHUT-DOWN	09:00	09:00	15:45	15:45	
END SOIL PROCESSING	08:40	08:41	15:30	15:25	
TIME REQUIRED TO SHUT DOWN	0.3 hr	0.3 hr	0.2 hr	0.3 hr	1.2 hr
ACTUAL PROCESS HOURS	2.2 hr	2.2 hr	4.3 hr	4.7 hr	13.3 hr
DOWN-TIME	0.8 hr	0.8 hr	3.0 hr	2.5 hr	7.2 hr
SYSTEM PAUSE	0.0 hr	0.0 hr	0.4 hr	1.8 hr	2.3 hr
SORTER NONAVAILABLE TIME	7.5 hr	7.5 hr	3.3 hr	3.3 hr	21.5 hr
AUTHORIZED DELAY TIME	7.0 hr	7.0 hr	2.5 hr	2.5 hr	19.0 hr
PLANT PERFORMANCE					65.0%
PRODUCTIVITY					31.7%

PRODUCTIVITY

Date	30-Mar-94	Excused Delays for day (sorter-hrs)	19 hr
Contract day (from 6 Sep)	165	Excused delays for contract (sorter-hrs)	2,702 hr
Current Contract week	28	Excused delay days (plant-days)	68 days
		Excused delay months (plant-month)	2.60 months
Soil production for Day	134 MT		
Cumulative Soil Production for Week	313 MT	Percent of contract completed	38.1%
Total Soil production for contract		Tons Ahead or Behind Schedule	1,824 MT
Since 6 Sep 93	36,481 MT	Days ahead or behind schedule	6 days
Since 6 Aug 93	38,072 MT		
Total Soil production for project	64,359 MT		

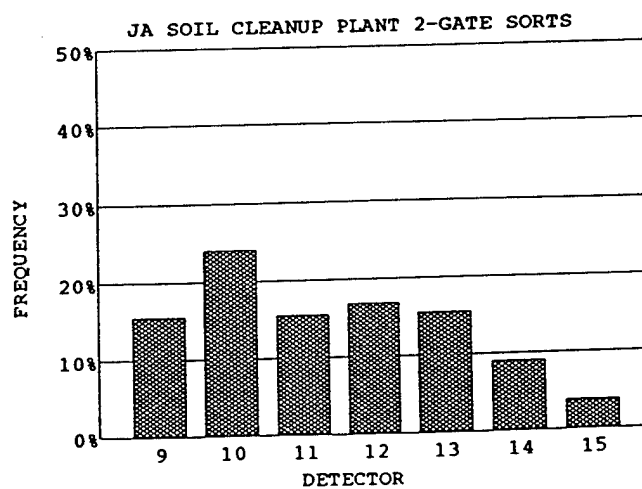
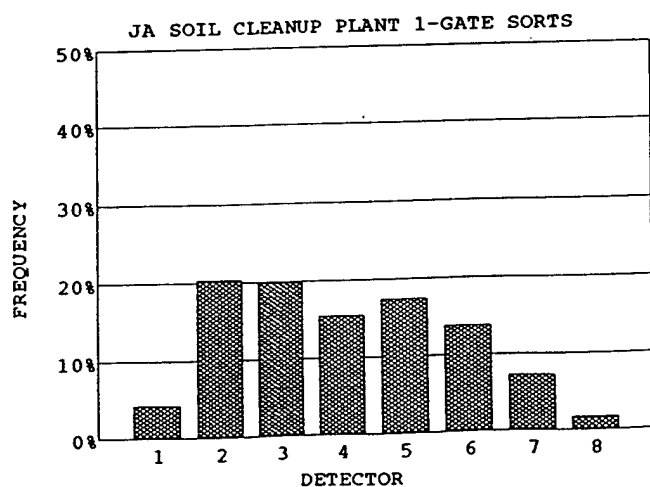
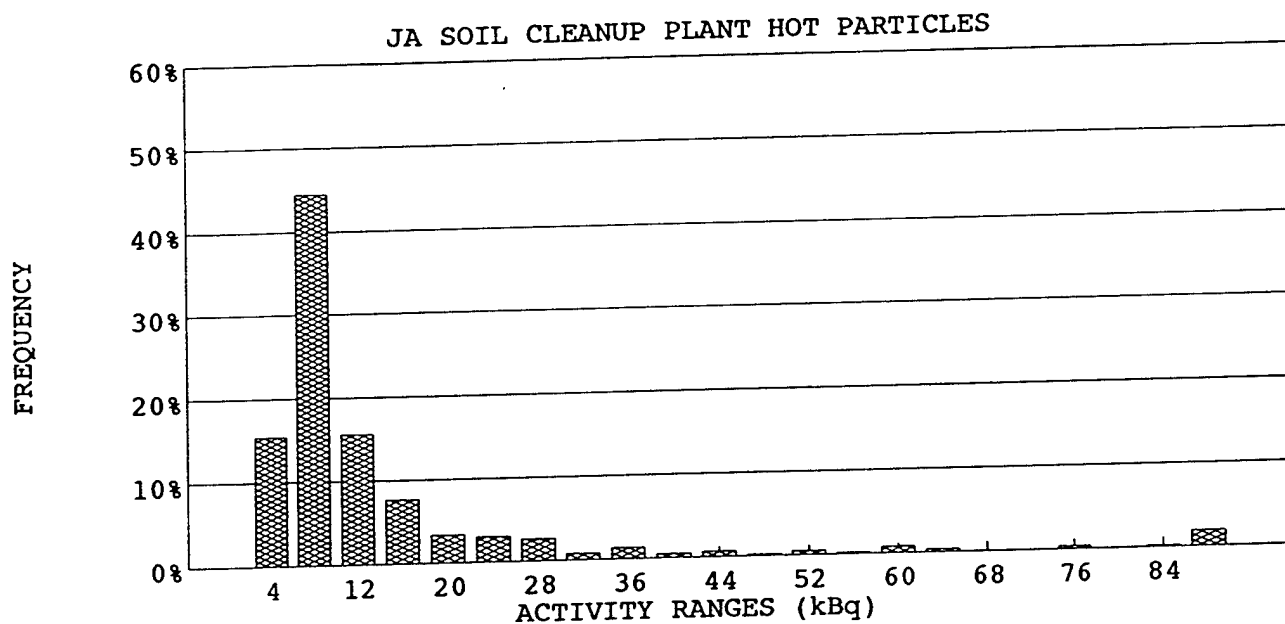
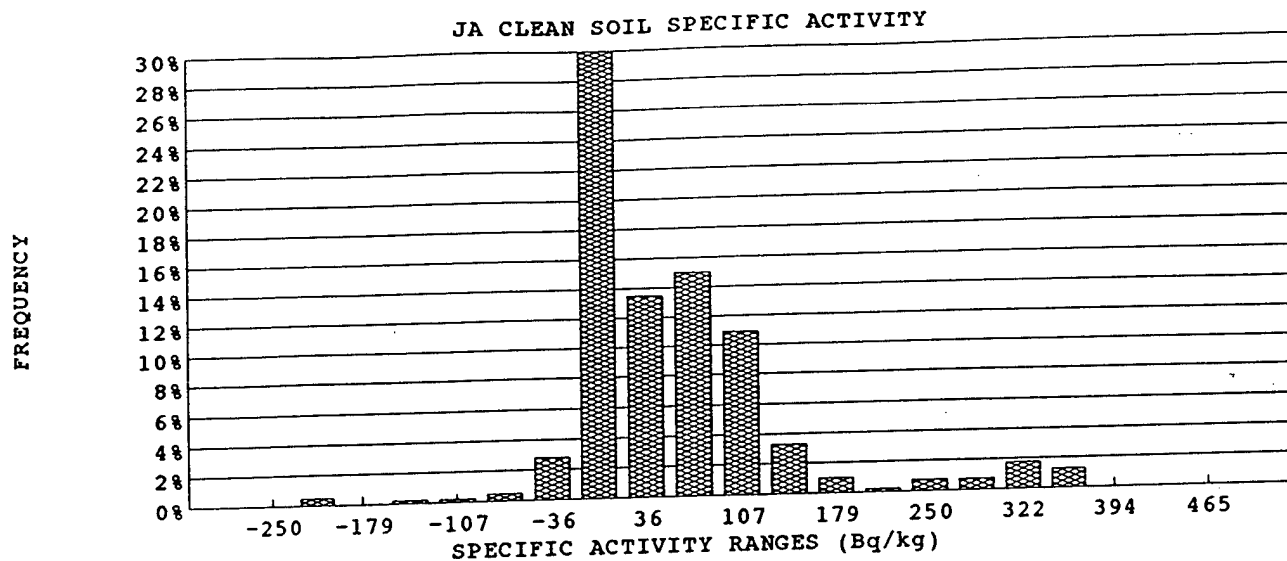
MT = metric tons

SORTER 1		30-Mar-94							
SORTER SOIL DENSITY		1.20 tons/m ³		BACKGROUND		0.64 ± 0.01 c/s			
SOIL		CONTAMINATED		CLEAN		TOTAL			
MASS TOTAL		8.2 tons		13.6 tons		21.7 tons			
MAXIMUM/SORT		55.9 kg		55.9 kg					
MINIMUM/SORT		0.7 kg		50.3 kg					
VOLUME IN-GROUND		6.5 yd ³		10.7 yd ³		17.2 yd ³			
WEIGHT RECOVERY (CLEAN/(HOT+CLEAN))		62.3%							
ACTIVITY		PARTICLE		DISPERSED + PARTICLE					
				HOT		CLEAN			
TOTAL		8,400 kBq		8,369 kBq		619 kBq			
MAXIMUM/SORT		885 kBq		701 kBq		20 kBq			
MINIMUM/SORT		3 kBq		0 Bq		-6 kBq			
SPECIFIC ACTIVITY				1,021 Bq/kg		46 Bq/kg			
SORTS				389		UNEXP PAUSE			
20-SEC PROCESS PERIODS						TIME TIME			
ALL 80 ELEMENTS SORT (MD>0&MND=0)		145				07:11 None			
NONE (AD=0 & MD=0 & MND>0)		198							
SOME (AD>0&0<MD<MNDmax&MND<MNDmax)		46							
UNEXPLAINED RECORDS		0							
0<AD<1kBq & MD>0		1							
AD=0 & MD>0		0							
AD<0 & MD >0		0							
2-SEC COUNT PERIODS				3,890					
2-SEC RECORDS WITH SORTS		500							
2-SEC RECORDS WITHOUT SORTS		3,390							
TOTAL PROCESS RECORDS (2-s SORTS and 20-s PERIODS)				889					
NONPROCESSING RECORDS (Test, calibration, etc)				5					
2-SEC SORT DETECTORS									
1 DET		352	70.4%	5 DET	0	0.0%			
2 DET		124	24.8%	6 DET	0	0.0%			
3 DET		23	4.6%	7 DET	0	0.0%			
4 DET		1	0.2%	8 DET	0	0.0%			
AVERAGE TIME BETWEEN 2-SEC SORTS		22.1 sec							
FREQUENCY DISTRIBUTIONS									
1-GATE SORTS		ACT_ND	NUM	SPEC_A	FREQ%	ACT_P	NUM	FREQ%	
DET	SORTS	(Bq)	(#)	(Bq/kg)		(kBq)	(#)		
1	5	-14000	1	-250	0.3%	4	39	7.8%	
2	23	-12000	1	-215	0.3%	8	234	46.8%	
3	49	-10000	0	-179	0.0%	12	89	17.8%	
4	49	-8000	0	-143	0.0%	16	41	8.2%	
5	54	-6000	5	-107	1.3%	20	18	3.6%	
6	43	-4000	16	-72	4.1%	24	14	2.8%	
7	21	-2000	30	-36	7.6%	28	7	1.4%	
8	9	0	185	0	47.0%	32	14	2.8%	
TOTAL	253	2000	69	36	17.5%	36	10	2.0%	
		4000	20	72	5.1%	40	4	0.8%	
		6000	24	107	6.1%	44	3	0.6%	
2-GATE SORTS		8000	10	143	2.5%	48	5	1.0%	
DET	SORTS	FREQ%							
9	19	7.7%	10000	4	179	1.0%	52	3	0.6%
10	28	11.3%	12000	1	215	0.3%	56	2	0.4%
11	56	22.7%	14000	2	250	0.5%	60	2	0.4%
12	45	18.2%	16000	7	286	1.8%	64	2	0.4%
13	59	23.9%	18000	9	322	2.3%	68	0	0.0%
14	26	10.5%	20000	10	358	2.5%	72	1	0.2%
15	14	5.7%	22000	0	394	0.0%	76	0	0.0%
TOTAL	247		24000	0	429	0.0%	80	0	0.0%
			26000	0	465	0.0%	84	3	0.6%
			>28000	0	0	0.0%	>84	9	1.8%
		TOTAL	394			TOTAL	500		
EVENT TYPES		HPE	467	MPE	855	DISE	10404		



SORTER 2				30-Mar-94				
SORTER SOIL DENSITY		1.20 tons/m ³		BACKGROUND		0.73 ± 0.03 c/s		
SOIL		CONTAMINATED		CLEAN		TOTAL		
MASS TOTAL		8.6 tons		13.3 tons		21.9 tons		
MAXIMUM/SORT		55.9 kg		55.9 kg				
MINIMUM/SORT		0.7 kg		49.6 kg				
VOLUME IN-GROUND		6.8 yd ³		10.5 yd ³		17.4 yd ³		
WEIGHT RECOVERY (CLEAN/(HOT+CLEAN))		60.6%						
ACTIVITY		PARTICLE		DISPERSED + PARTICLE				
				HOT		CLEAN		
TOTAL		8,529 kBq		8,932 kBq		782 kBq		
MAXIMUM/SORT		520 kBq		455 kBq		19 kBq		
MINIMUM/SORT		2 kBq		0 Bq		-12 kBq		
SPECIFIC ACTIVITY				1,035 Bq/kg		59 Bq/kg		
SORTS				392		UNEXP PAUSE		
20-SEC PROCESS PERIODS						TIME TIME		
ALL 80 ELEMENTS SORT (MD>0&MND=0)				153		None None		
NONE (AD=0 & MD=0 & MND>0)				199				
SOME (AD>0&0<MD<MNDmax&MND<MNDmax)				40				
UNEXPLAINED RECORDS				0				
0<AD<1kBq & MD>0				0				
AD=0 & MD>0				0				
AD<0 & MD >0				0				
2-SEC COUNT PERIODS				3,920				
2-SEC RECORDS WITH SORTS				596				
2-SEC RECORDS WITHOUT SORTS				3,324				
TOTAL PROCESS RECORDS (2-s SORTS and 20-s PERIODS)				988				
NONPROCESSING RECORDS (Test, calibration, etc)				2				
2-SEC SORT DETECTORS								
1 DET		406 68.1%	5 DET	4	0.7%			
2 DET		143 24.0%	6 DET	0	0.0%			
3 DET		31 5.2%	7 DET	1	0.2%			
4 DET		12 2.0%	8 DET	0	0.0%			
AVERAGE TIME BETWEEN 2-SEC SORTS				19.3 sec				
FREQUENCY DISTRIBUTIONS								
1-GATE SORTS		ACT_ND	NUM	SPEC_A	FREQ%	ACT_P	NUM	FREQ%
DET	SORTS	FREQ%	(Bq)	(#)	(Bq/kg)	(kBq)	(#)	
1	13	4.3%	-14000	0	-250 0.0%	4	92	15.4%
2	62	20.3%	-12000	2	-215 0.5%	8	265	44.5%
3	61	20.0%	-10000	0	-179 0.0%	12	93	15.6%
4	47	15.4%	-8000	1	-143 0.3%	16	46	7.7%
5	53	17.4%	-6000	1	-107 0.3%	20	20	3.4%
6	42	13.8%	-4000	2	-72 0.5%	24	18	3.0%
7	22	7.2%	-2000	11	-36 2.8%	28	16	2.7%
8	5	1.6%	0	186	0 47.2%	32	5	0.8%
TOTAL	305		2000	53	36 13.5%	36	8	1.3%
			4000	59	72 15.0%	40	3	0.5%
			6000	43	107 10.9%	44	4	0.7%
2-GATE SORTS			8000	13	143 3.3%	48	1	0.2%
DET	SORTS	FREQ%	10000	4	179 1.0%	52	3	0.5%
9	45	15.5%	12000	1	215 0.3%	56	1	0.2%
10	70	24.1%	14000	3	250 0.8%	60	5	0.8%
11	45	15.5%	16000	3	286 0.8%	64	2	0.3%
12	49	16.8%	18000	7	322 1.8%	68	0	0.0%
13	45	15.5%	20000	5	358 1.3%	72	0	0.0%
14	26	8.9%	22000	0	394 0.0%	76	2	0.3%
15	11	3.8%	24000	0	429 0.0%	80	0	0.0%
TOTAL	291		26000	0	465 0.0%	84	1	0.2%
			>28000	0	0 0.0%	>84	11	1.8%
			TOTAL	394		TOTAL	596	
EVENT TYPES		HPE	552	MPE	1200	DISE	10600	

SORTER 2



SORTER 3

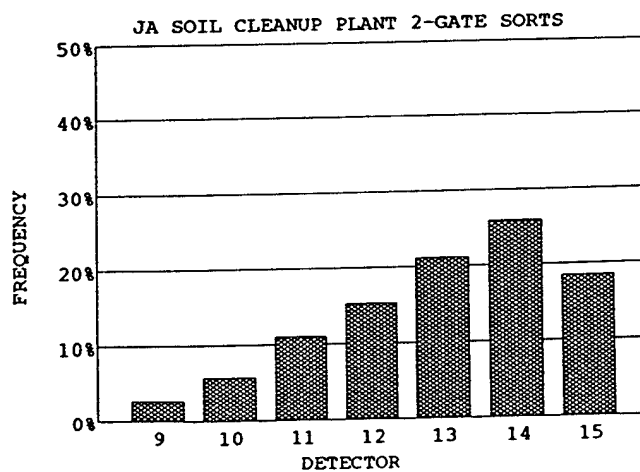
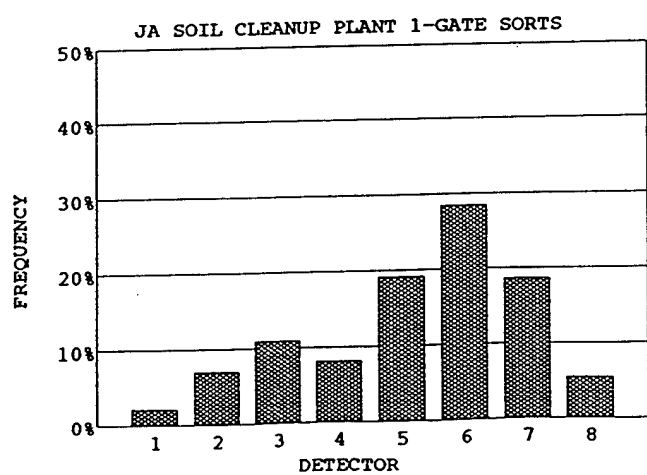
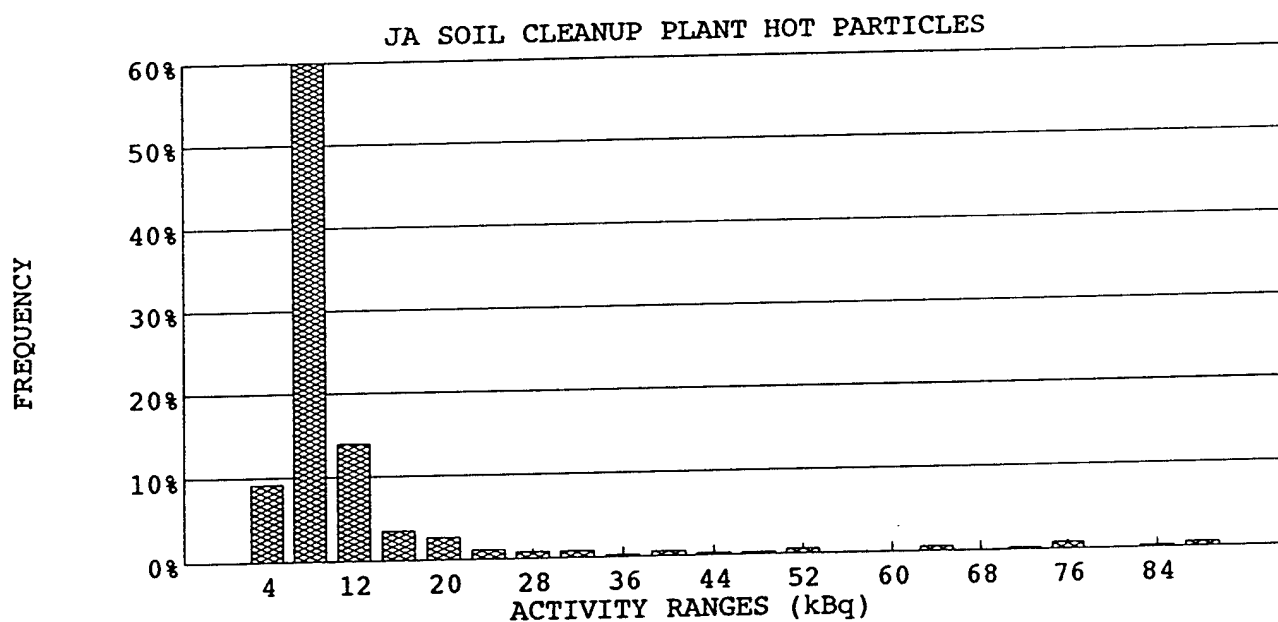
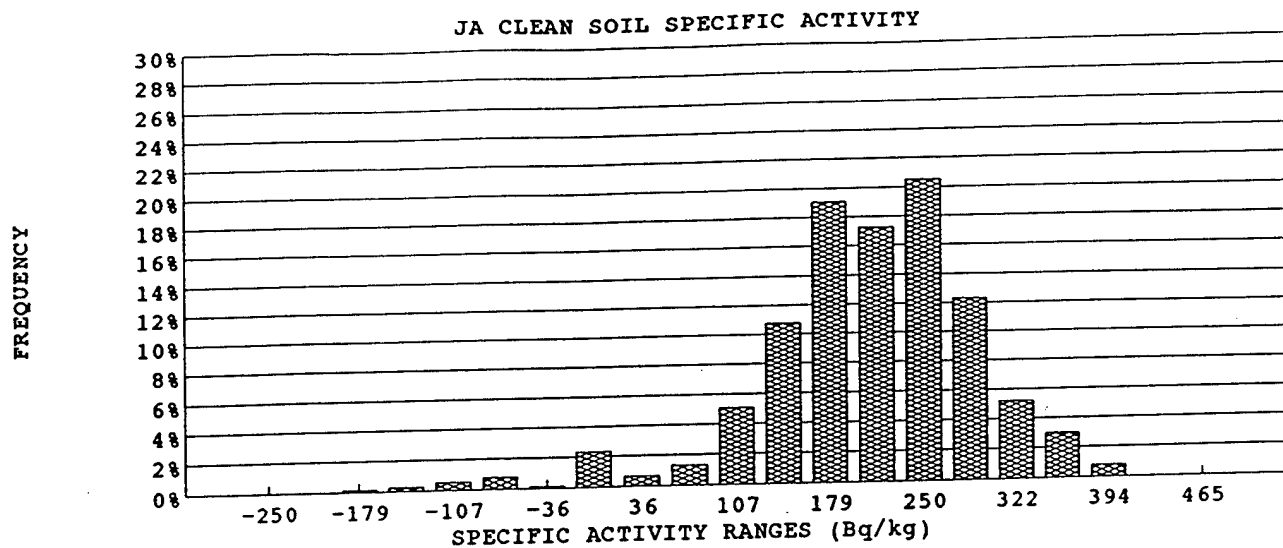
30-Mar-94

SORTER SOIL DENSITY		1.20 tons/m ³	BACKGROUND		0.63 ± 0.03 c/s
SOIL			CONTAMINATED	CLEAN	TOTAL
MASS TOTAL			1.6 tons	41.3 tons	42.9 tons
MAXIMUM/SORT			58.1 kg	55.9 kg	
MINIMUM/SORT			0.7 kg	50.3 kg	
VOLUME IN-GROUND			1.3 yd ³	32.7 yd ³	34.0 yd ³
WEIGHT RECOVERY (CLEAN/(HOT+CLEAN))			96.2%		

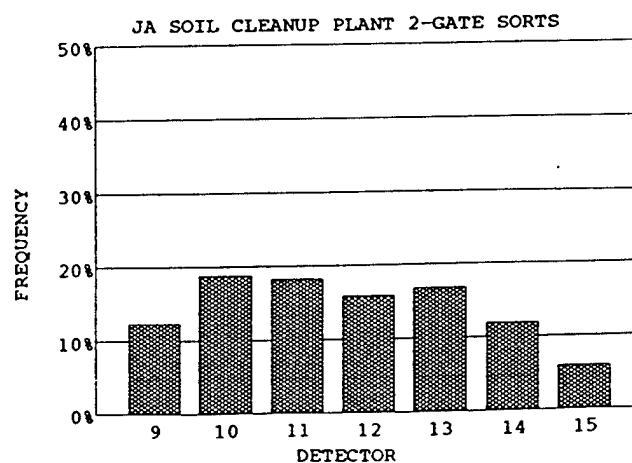
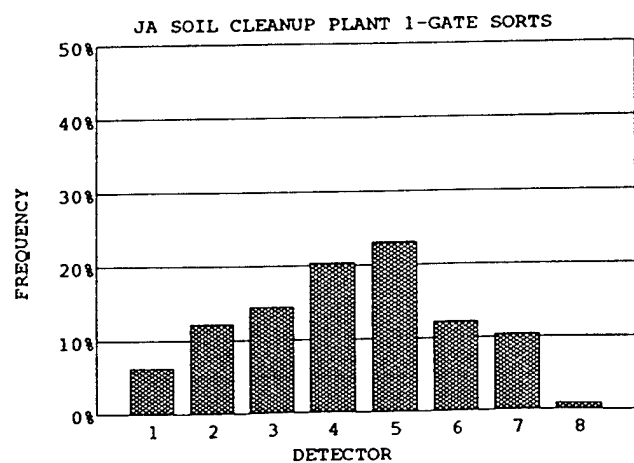
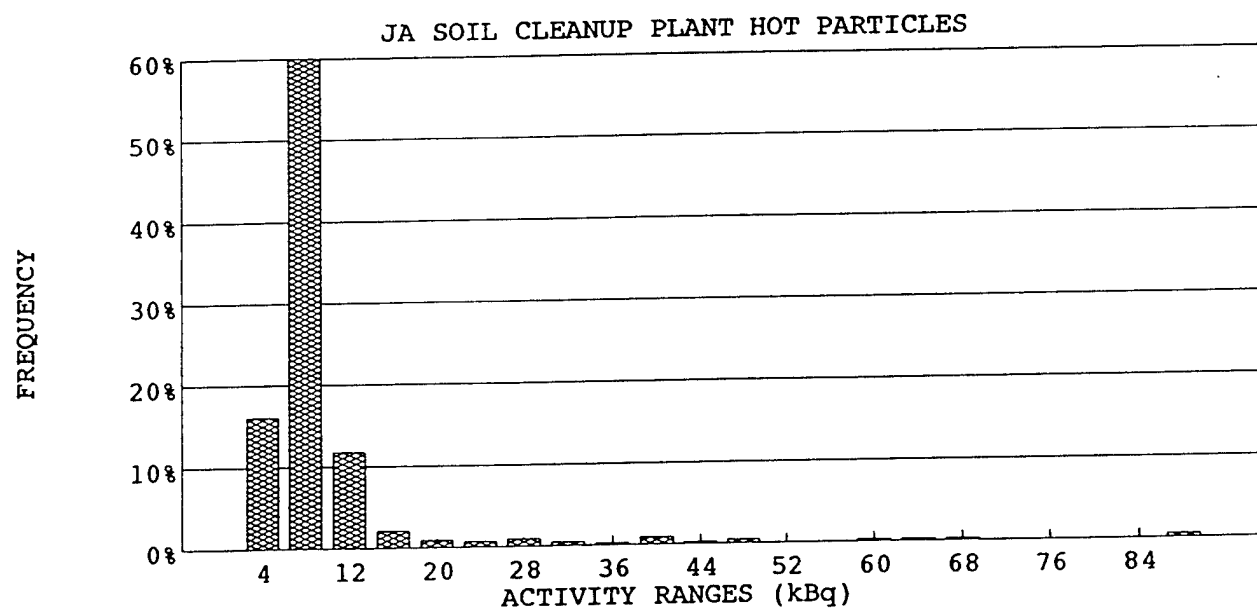
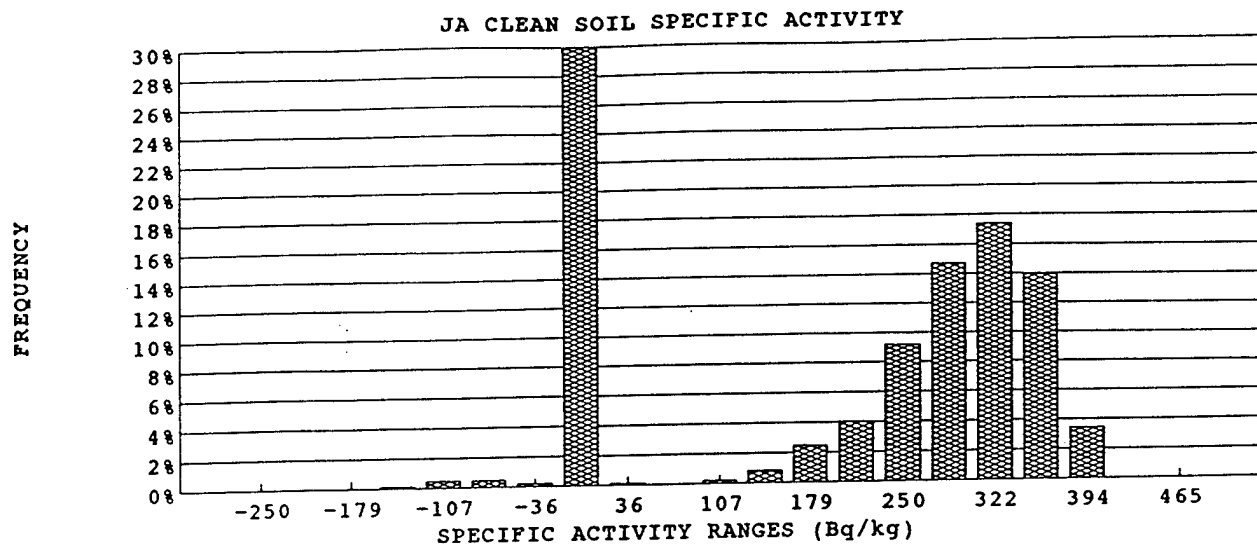
ACTIVITY	DISPERSED + PARTICLE		
	PARTICLE	HOT	CLEAN
TOTAL	3,526 kBq	2,605 kBq	8,251 kBq
MAXIMUM/SORT	88 kBq	68 kBq	21 kBq
MINIMUM/SORT	3 kBq	0 Bq	-10 kBq
SPECIFIC ACTIVITY		1,596 Bq/kg	200 Bq/kg

SORTS				768	UNEXP	PAUSE
20-SEC PROCESS PERIODS					TIME	TIME
ALL 80 ELEMENTS SORT (MD>0&MND=0)			17		None	12:34
NONE (AD=0 & MD=0 & MND>0)			270			12:58
SOME (AD>0&0<MD<MNDmax&MND<MNDmax)			481			13:10
UNEXPLAINED RECORDS			0			14:23
0<AD<1kBq & MD>0			0			14:51
AD=0 & MD>0			0			
AD<0 & MD >0			0			
2-SEC COUNT PERIODS				7,680		
2-SEC RECORDS WITH SORTS			373			
2-SEC RECORDS WITHOUT SORTS			7,307			
TOTAL PROCESS RECORDS (2-s SORTS and 20-s PERIODS)				1,141		
NONPROCESSING RECORDS (Test, calibration, etc)				3		
2-SEC SORT DETECTORS						
1 DET	309	82.8%	5 DET	0	0.0%	
2 DET	57	15.3%	6 DET	0	0.0%	
3 DET	6	1.6%	7 DET	0	0.0%	
4 DET	1	0.3%	8 DET	0	0.0%	
AVERAGE TIME BETWEEN 2-SEC SORTS			49.7 sec			

FREQUENCY DISTRIBUTIONS									
1-GATE SORTS		ACT_ND	NUM	SPEC_A	FREQ%	ACT_P	NUM	FREQ%	
DET	SORTS	FREQ%	(Bq)	(#)	(Bq/kg)	(kBq)	(#)		
1	4	2.2%	-14000	0	-250	0.0%	4	34	9.1%
2	13	7.1%	-12000	0	-215	0.0%	8	238	63.8%
3	20	10.9%	-10000	1	-179	0.1%	12	52	13.9%
4	15	8.2%	-8000	2	-143	0.3%	16	13	3.5%
5	35	19.1%	-6000	4	-107	0.5%	20	10	2.7%
6	52	28.4%	-4000	6	-72	0.8%	24	4	1.1%
7	34	18.6%	-2000	1	-36	0.1%	28	3	0.8%
8	10	5.5%	0	18	0	2.3%	32	3	0.8%
TOTAL		183	2000	5	36	0.6%	36	1	0.3%
			4000	10	72	1.3%	40	2	0.5%
			6000	39	107	5.1%	44	1	0.3%
2-GATE SORTS			8000	83	143	10.8%	48	1	0.3%
DET	SORTS	FREQ%	10000	147	179	19.1%	52	2	0.5%
9	5	2.6%	12000	133	215	17.3%	56	0	0.0%
10	11	5.8%	14000	158	250	20.5%	60	0	0.0%
11	21	11.1%	16000	95	286	12.3%	64	2	0.5%
12	29	15.3%	18000	40	322	5.2%	68	0	0.0%
13	40	21.1%	20000	23	358	3.0%	72	1	0.3%
14	49	25.8%	22000	6	394	0.8%	76	3	0.8%
15	35	18.4%	24000	0	429	0.0%	80	0	0.0%
TOTAL		190	26000	0	465	0.0%	84	1	0.3%
			>28000	0	0	0.0%	>84	2	0.5%
			TOTAL	771			TOTAL	373	
EVENT TYPES		HPE	418	MPE	570	DISE	1346		



SORTER 4				30-Mar-94					
SORTER SOIL DENSITY		1.20 tons/m ³		BACKGROUND		0.63 ± 0.03 c/s			
SOIL		CONTAMINATED		CLEAN		TOTAL			
MASS TOTAL		15.9 tons		31.6 tons		47.4 tons			
MAXIMUM/SORT		58.1 kg		55.9 kg					
MINIMUM/SORT		0.7 kg		50.3 kg					
VOLUME IN-GROUND		12.6 yd ³		25.0 yd ³		37.6 yd ³			
WEIGHT RECOVERY (CLEAN/(HOT+CLEAN))		66.5%							
ACTIVITY		PARTICLE		DISPERSED + PARTICLE					
				HOT		CLEAN			
TOTAL		3,336 kBq		10,320 kBq		8,812 kBq			
MAXIMUM/SORT		121 kBq		93 kBq		21 kBq			
MINIMUM/SORT		3 kBq		(8,044)Bq		-8 kBq			
SPECIFIC ACTIVITY				650 Bq/kg		279 Bq/kg			
SORTS									
20-SEC PROCESS PERIODS				848		UNEXP PAUSE			
ALL 80 ELEMENTS SORT (MD>0&MND=0)				272		TIME TIME			
NONE (AD=0 & MD=0 & MND>0)				177		09:45 09:11			
SOME (AD>0&0<MD<MNDmax&MND<MNDmax)				399		10:46 09:44			
UNEXPLAINED RECORDS				0		09:58			
0<AD<1kBq & MD>0				0		10:31			
AD=0 & MD>0				1		11:58			
AD<0 & MD >0				1		12:34			
2-SEC COUNT PERIODS				8,480		12:52			
2-SEC RECORDS WITH SORTS				423		12:54			
2-SEC RECORDS WITHOUT SORTS				8,057		12:58			
TOTAL PROCESS RECORDS (2-s SORTS and 20-s PERIODS)				1,271		13:03			
NONPROCESSING RECORDS (Test, calibration, etc)				1		13:10			
2-SEC SORT DETECTORS						13:14			
1 DET		363	85.8%	5 DET		0	0.0%	14:23	
2 DET		52	12.3%	6 DET		0	0.0%	14:40	
3 DET		6	1.4%	7 DET		0	0.0%	14:44	
4 DET		2	0.5%	8 DET		0	0.0%		
AVERAGE TIME BETWEEN 2-SEC SORTS				46.7 sec					
FREQUENCY DISTRIBUTIONS									
1-GATE SORTS			ACT_ND	NUM	SPEC_A	FREQ%	ACT_P	NUM	FREQ%
DET	SORTS	FREQ%	(Bq)	(#)	(Bq/kg)		(kBq)	(#)	
1	14	6.3%	-14000	0	-250	0.0%	4	68	16.1%
2	27	12.2%	-12000	0	-215	0.0%	8	270	63.8%
3	32	14.5%	-10000	0	-179	0.0%	12	50	11.8%
4	45	20.4%	-8000	1	-143	0.1%	16	9	2.1%
5	51	23.1%	-6000	4	-107	0.5%	20	4	0.9%
6	27	12.2%	-4000	4	-72	0.5%	24	3	0.7%
7	23	10.4%	-2000	2	-36	0.2%	28	4	0.9%
8	2	0.9%	0	275	0	32.4%	32	2	0.5%
TOTAL	221		2000	1	36	0.1%	36	1	0.2%
			4000	0	72	0.0%	40	4	0.9%
2-GATE SORTS			6000	2	107	0.2%	44	1	0.2%
DET	SORTS	FREQ%	8000	7	143	0.8%	48	2	0.5%
9	25	12.4%	10000	21	179	2.5%	52	0	0.0%
10	38	18.8%	12000	34	215	4.0%	56	0	0.0%
11	37	18.3%	14000	78	250	9.2%	60	1	0.2%
12	32	15.8%	16000	125	286	14.7%	64	1	0.2%
13	34	16.8%	18000	148	322	17.4%	68	1	0.2%
14	24	11.9%	20000	118	358	13.9%	72	0	0.0%
15	12	5.9%	22000	29	394	3.4%	76	0	0.0%
TOTAL	202		24000	0	429	0.0%	80	0	0.0%
			26000	0	465	0.0%	84	0	0.0%
			>28000	0	0	0.0%	>84	2	0.5%
			TOTAL	849			TOTAL	423	
EVENT TYPES		HPE	486	MPE	1103	DISE	21124		



WORK HISTORY - JA SOIL CLEANUP PLANT

31-Mar-94

WORK DAY START	06:00 AM	WORK DAY END	16:30 PM
LUNCH START	11:00 AM	TIME LOST DURING LUNCH	0.0 HR

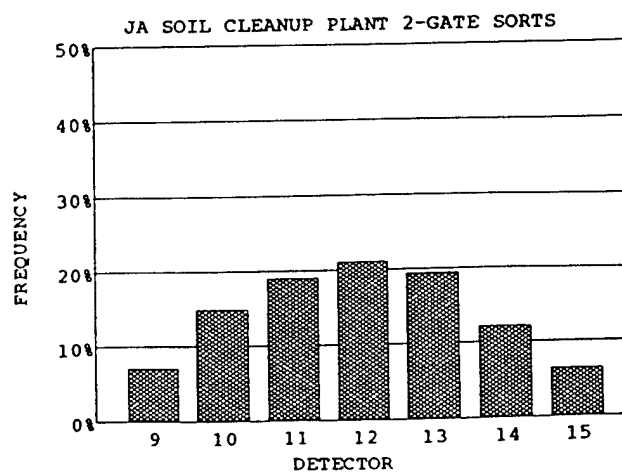
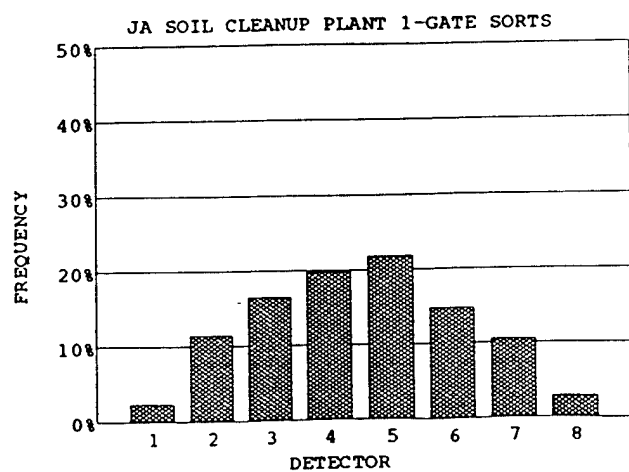
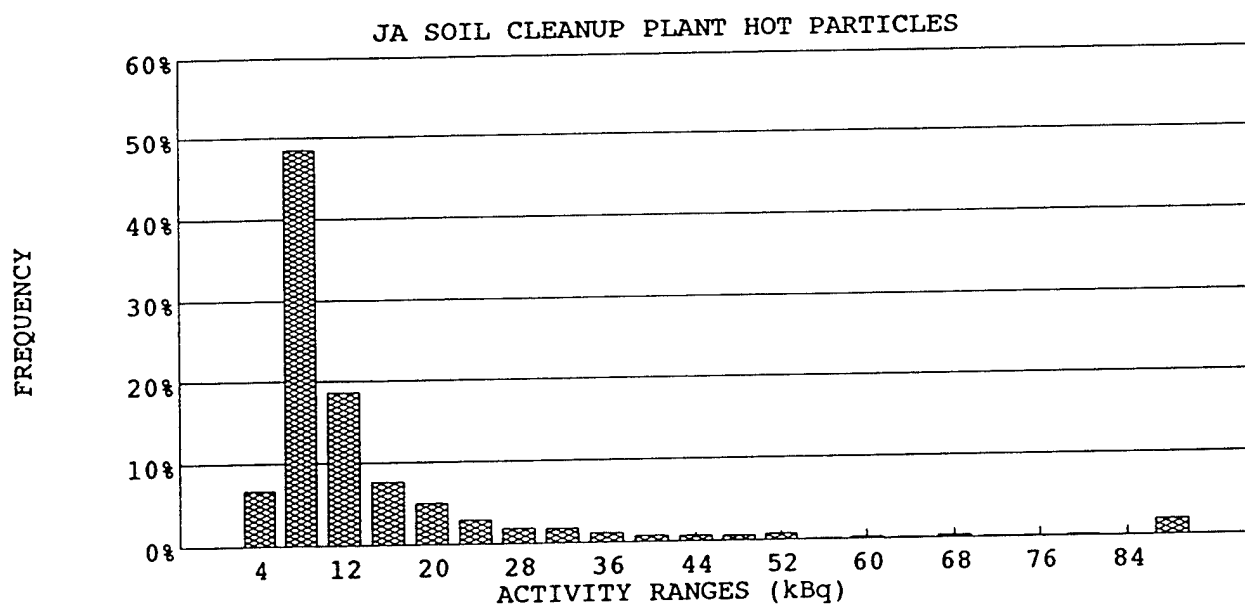
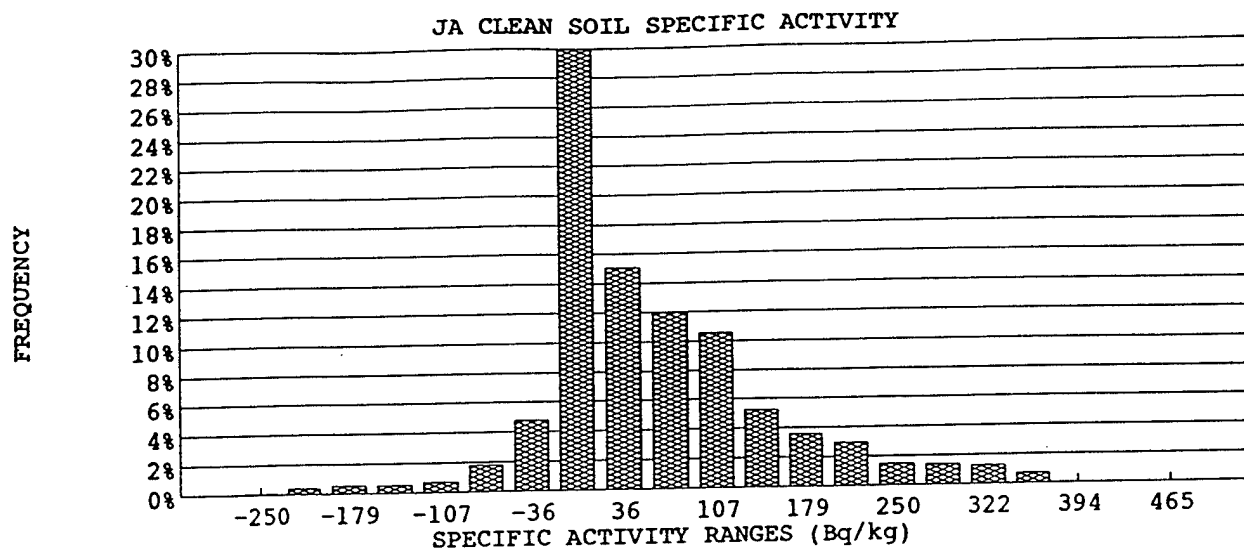
	SORTER 1	SORTER 2	SORTER 3	SORTER 4	TOTAL (sorter hours)
WORK HOURS	10.5 hr	10.5 hr	10.5 hr	10.5 hr	42.0 hr
SORTER AVAILABLE HOURS	10.5 hr	10.5 hr	0.0 hr	0.0 hr	21.0 hr
SORTER START-UP	06:00	06:00	NA	NA	
START SOIL PROCESSING	06:35	06:35	NA	NA	
TIME REQUIRED TO START-UP	0.6 hr	0.6 hr	0.0 hr	0.0 hr	1.2 hr
SORTER SHUT-DOWN	16:30	16:30	NA	NA	
END SOIL PROCESSING	16:06	16:06	NA	NA	
TIME REQUIRED TO SHUT DOWN	0.4 hr	0.4 hr	0.0 hr	0.0 hr	0.8 hr
ACTUAL PROCESS HOURS	8.8 hr	8.8 hr	0.0 hr	0.0 hr	17.5 hr
DOWN-TIME	1.7 hr	1.7 hr	0.0 hr	0.0 hr	3.5 hr
SYSTEM PAUSE	0.8 hr	0.8 hr	0.0 hr	0.0 hr	1.5 hr
SORTER NONAVAILABLE TIME	0.0 hr	0.0 hr	10.0 hr	10.0 hr	20.0 hr
AUTHORIZED DELAY TIME	0.0 hr	0.0 hr	10.0 hr	10.0 hr	20.0 hr
PLANT PERFORMANCE					83.5%
PRODUCTIVITY					41.7%

PRODUCTIVITY

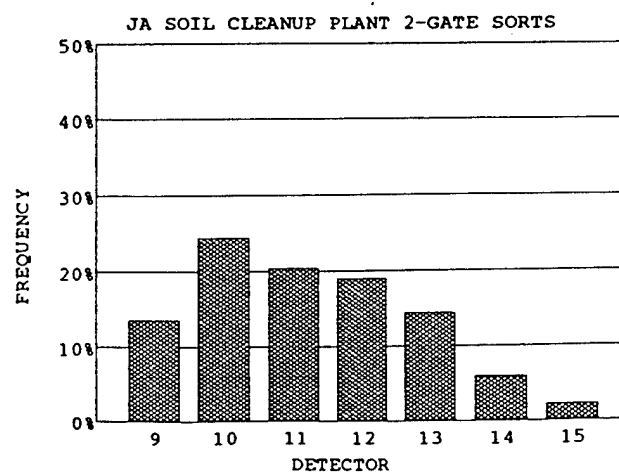
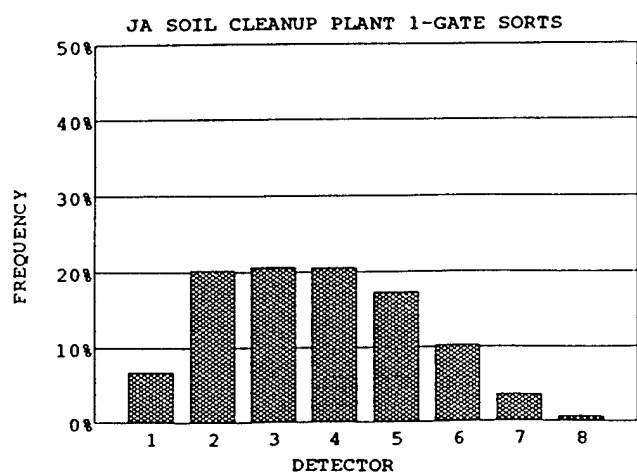
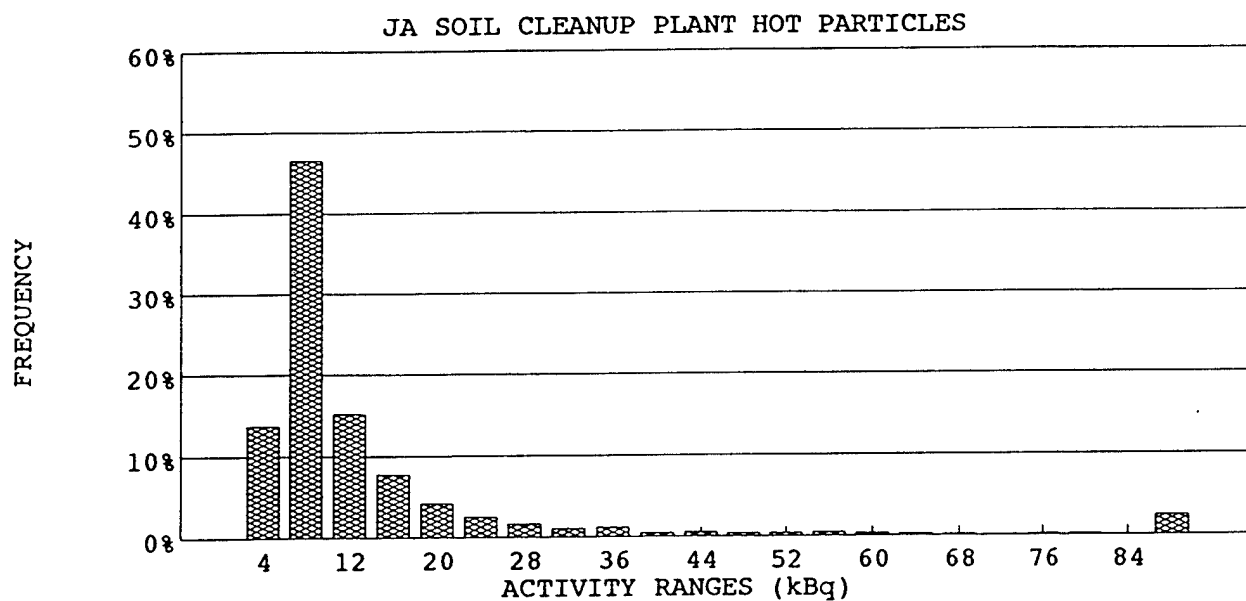
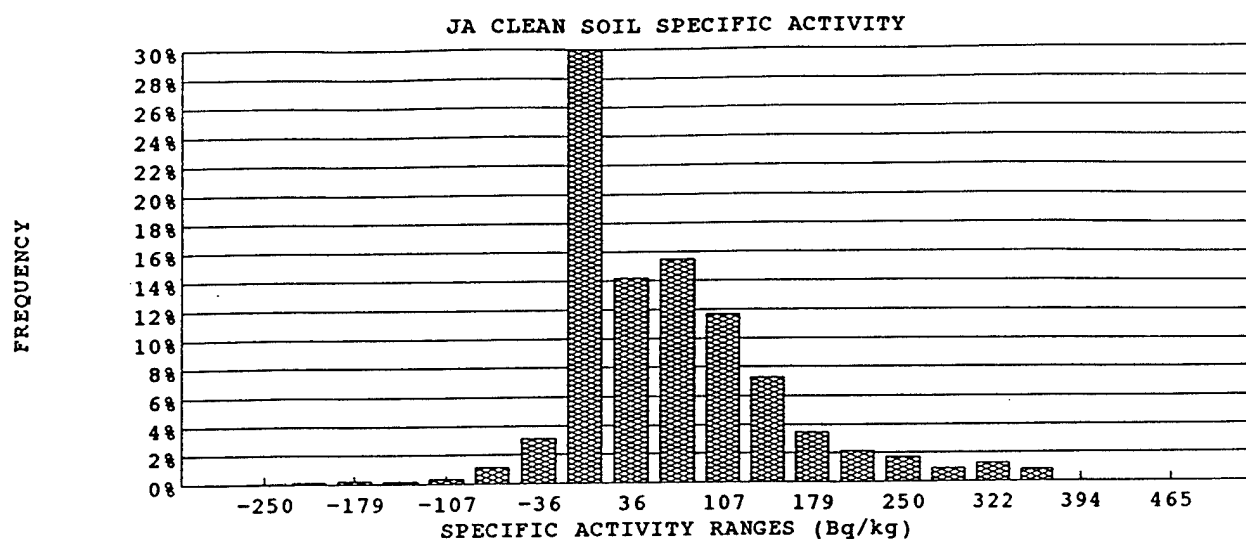
Date	31-Mar-94	Excused Delays for day (sorter-hrs)	20 hr
Contract day (from 6 Sep)	166	Excused delays for contract (sorter-hrs)	2,722 hr
Current Contract week	28	Excused delay days (plant-days)	68 days
		Excused delay months (plant-month)	2.62 months
Soil production for Day	176 MT		
Cumulative Soil Production for Week	489 MT	Percent of contract completed	38.2%
Total Soil production for contract		Tons Ahead or Behind Schedule	1,842 MT
Since 6 Sep 93	36,658 MT	Days ahead or behind schedule	6 days
Since 6 Aug 93	38,249 MT		
Total Soil production for project	64,536 MT		

MT = metric tons

SORTER 1				31-Mar-94					
SORTER SOIL DENSITY		1.20 tons/m ³		BACKGROUND		0.66 ± 0.03 c/s			
SOIL		CONTAMINATED		CLEAN		TOTAL			
MASS TOTAL		24.5 tons		63.7 tons		88.2 tons			
MAXIMUM/SORT		58.1 kg		55.9 kg					
MINIMUM/SORT		0.7 kg		48.9 kg					
VOLUME IN-GROUND		19.4 yd ³		50.5 yd ³		69.9 yd ³			
WEIGHT RECOVERY (CLEAN/(HOT+CLEAN))		72.2%							
ACTIVITY		PARTICLE		DISPERSED + PARTICLE					
				HOT		CLEAN			
TOTAL		26,271 kBq		27,449 kBq		3,609 kBq			
MAXIMUM/SORT		621 kBq		422 kBq		19 kBq			
MINIMUM/SORT		2 kBq		(8,644)Bq		-14 kBq			
SPECIFIC ACTIVITY				1,122 Bq/kg		57 Bq/kg			
SORTS									
20-SEC PROCESS PERIODS				1,577		UNEXP PAUSE			
ALL 80 ELEMENTS SORT (MD>0&MND=0)				430		TIME TIME			
NONE (AD=0 & MD=0 & MND>0)				873		07:44 07:05			
SOME (AD>0&0<MD<MNDmax&MND<MNDmax)				274		10:13 14:00			
UNEXPLAINED RECORDS				0		14:05 15:03			
0<AD<1kBq & MD>0				1		15:06			
AD=0 & MD>0				0					
AD<0 & MD >0				3					
2-SEC COUNT PERIODS				15,770					
2-SEC RECORDS WITH SORTS				1,845					
2-SEC RECORDS WITHOUT SORTS				13,925					
TOTAL PROCESS RECORDS (2-s SORTS and 20-s PERIODS)				3,422					
NONPROCESSING RECORDS (Test, calibration, etc)				3					
2-SEC SORT DETECTORS									
1 DET		1,297	70.3%	5 DET	4	0.2%			
2 DET		421	22.8%	6 DET	0	0.0%			
3 DET		107	5.8%	7 DET	0	0.0%			
4 DET		16	0.9%	8 DET	0	0.0%			
AVERAGE TIME BETWEEN 2-SEC SORTS				24.3 sec					
FREQUENCY DISTRIBUTIONS									
1-GATESORTS		ACT_ND	NUM	SPEC_A	FREQ%	ACT_P	NUM	FREQ%	
DET	SORTS	(Bq)	(#)	(Bq/kg)		(kBq)	(#)		
1	22	2.3%	-14000	1	-250	0.1%	4	124	6.7%
2	109	11.5%	-12000	6	-215	0.4%	8	894	48.5%
3	157	16.5%	-10000	8	-179	0.5%	12	343	18.6%
4	188	19.8%	-8000	8	-143	0.5%	16	141	7.6%
5	208	21.9%	-6000	11	-107	0.7%	20	92	5.0%
6	140	14.7%	-4000	28	-72	1.8%	24	54	2.9%
7	100	10.5%	-2000	75	-36	4.7%	28	34	1.8%
8	27	2.8%	0	587	0	37.2%	32	33	1.8%
TOTAL	951		2000	238	36	15.1%	36	21	1.1%
			4000	190	72	12.0%	40	14	0.8%
			6000	167	107	10.6%	44	13	0.7%
2-GATESORTS		8000	83	143	5.3%	48	11	0.6%	
DET	SORTS	FREQ%							
9	63	7.0%	10000	56	179	3.5%	52	14	0.8%
10	133	14.9%	12000	46	215	2.9%	56	2	0.1%
11	170	19.0%	14000	23	250	1.5%	60	5	0.3%
12	189	21.1%	16000	22	286	1.4%	64	2	0.1%
13	174	19.5%	18000	20	322	1.3%	68	6	0.3%
14	108	12.1%	20000	11	358	0.7%	72	2	0.1%
15	57	6.4%	22000	0	394	0.0%	76	2	0.1%
TOTAL	894		24000	0	429	0.0%	80	3	0.2%
			26000	0	465	0.0%	84	0	0.0%
			>28000	0	0	0.0%	>84	35	1.9%
			TOTAL	1,580			TOTAL	1,845	
EVENT TYPES		HPE	1,760	MPE	3364	DISE	29888		



SORTER 2				31-Mar-94					
SORTER SOIL DENSITY		1.20 tons/m ³		BACKGROUND		0.74 ± 0.04 c/s			
SOIL		CONTAMINATED		CLEAN		TOTAL			
MASS TOTAL		25.2 tons		63.0 tons		88.2 tons			
MAXIMUM/SORT		58.1 kg		55.9 kg					
MINIMUM/SORT		0.7 kg		46.1 kg					
VOLUME IN-GROUND		20.0 yd ³		49.9 yd ³		69.9 yd ³			
WEIGHT RECOVERY (CLEAN/(HOT+CLEAN))		71.4%							
ACTIVITY		PARTICLE		DISPERSED + PARTICLE					
				HOT		CLEAN			
TOTAL		33,431 kBq		28,727 kBq		4,252 kBq			
MAXIMUM/SORT		2,154 kBq		1,549 kBq		20 kBq			
MINIMUM/SORT		2 kBq		(11,594)Bq		-14 kBq			
SPECIFIC ACTIVITY				1,140 Bq/kg		67 Bq/kg			
SORTS									
20-SEC PROCESS PERIODS				1,578		UNEXP PAUSE			
ALL 80 ELEMENTS SORT (MD>0&MND=0)				442		TIME TIME			
NONE (AD=0 & MD=0 & MND>0)				823		07:44 07:06			
SOME (AD>0&0<MD<MNDmax&MND<MNDmax)				313		08:01 14:00			
UNEXPLAINED RECORDS				0		12:58 15:03			
0<AD<1kBq & MD>0				2		14:05			
AD=0 & MD>0				0		15:06			
AD<0 & MD >0				3					
2-SEC COUNT PERIODS				15,780					
2-SEC RECORDS WITH SORTS				1,926					
2-SEC RECORDS WITHOUT SORTS				13,854					
TOTAL PROCESS RECORDS (2-s SORTS and 20-s PERIODS)				3,504					
NONPROCESSING RECORDS (Test, calibration, etc)				5					
2-SEC SORT DETECTORS									
1 DET		1,375	71.4%	5 DET	5	0.3%			
2 DET		423	22.0%	6 DET	0	0.0%			
3 DET		97	5.0%	7 DET	0	0.0%			
4 DET		26	1.3%	8 DET	0	0.0%			
AVERAGE TIME BETWEEN 2-SEC SORTS				23.0 sec					
FREQUENCY DISTRIBUTIONS									
1-GATE SORTS			ACT_ND	NUM	SPEC_A	FREQ%	ACT_P	NUM	FREQ%
DET	SORTS	FREQ%	(Bq)	(#)	(Bq/kg)		(kBq)	(#)	
1	64	6.8%	-14000	1	-250	0.1%	4	264	13.7%
2	192	20.3%	-12000	2	-215	0.1%	8	897	46.6%
3	196	20.7%	-10000	4	-179	0.3%	12	293	15.2%
4	195	20.6%	-8000	3	-143	0.2%	16	149	7.7%
5	164	17.3%	-6000	6	-107	0.4%	20	81	4.2%
6	97	10.2%	-4000	18	-72	1.1%	24	48	2.5%
7	34	3.6%	-2000	49	-36	3.1%	28	32	1.7%
8	6	0.6%	0	567	0	35.8%	32	19	1.0%
TOTAL	948		2000	224	36	14.2%	36	23	1.2%
			4000	245	72	15.5%	40	10	0.5%
			6000	185	107	11.7%	44	11	0.6%
2-GATE SORTS			8000	115	143	7.3%	48	8	0.4%
DET	SORTS	FREQ%							
9	133	13.6%	10000	55	179	3.5%	52	8	0.4%
10	239	24.4%	12000	34	215	2.1%	56	10	0.5%
11	200	20.4%	14000	27	250	1.7%	60	7	0.4%
12	186	19.0%	16000	15	286	0.9%	64	5	0.3%
13	141	14.4%	18000	20	322	1.3%	68	4	0.2%
14	58	5.9%	20000	13	358	0.8%	72	2	0.1%
15	21	2.1%	22000	0	394	0.0%	76	4	0.2%
TOTAL	978		24000	0	429	0.0%	80	4	0.2%
			26000	0	465	0.0%	84	1	0.1%
			>28000	0	0	0.0%	>84	46	2.4%
			TOTAL	1,583			TOTAL	1,926	
EVENT TYPES		HPE	1,899	MPE	3545	DISE	30626		



WORK HISTORY - JA SOIL CLEANUP PLANT

01-Apr-94

WORK DAY START	06:00 AM	WORK DAY END	16:30 PM
LUNCH START	11:00 AM	TIME LOST DURING LUNCH	0.0 HR

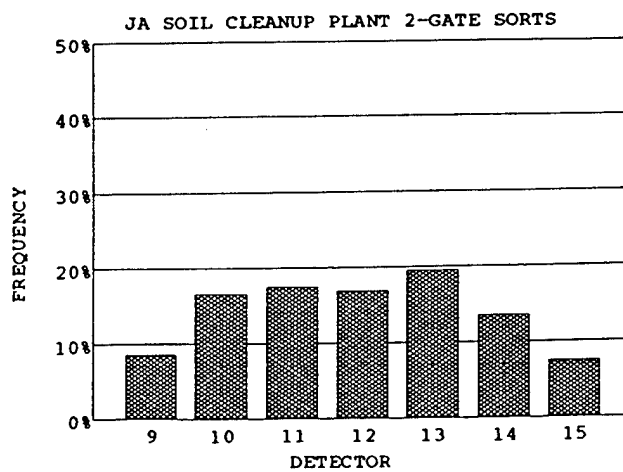
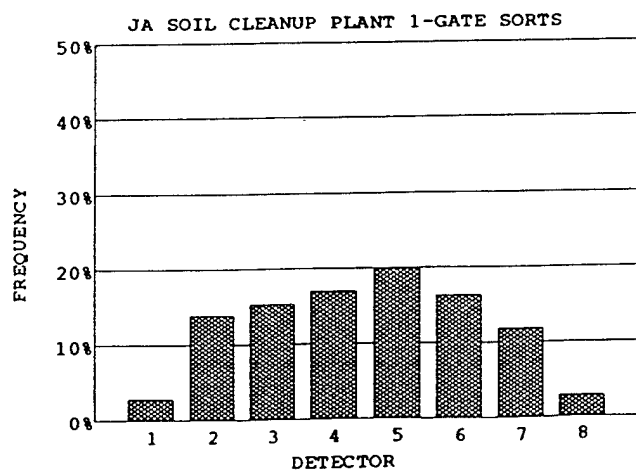
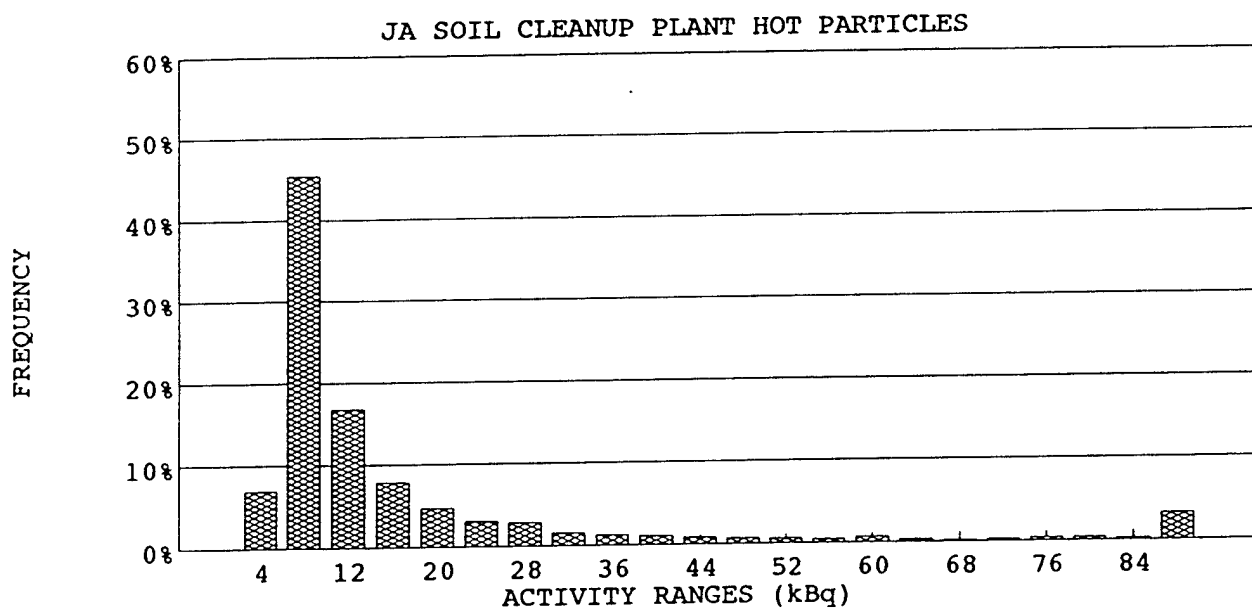
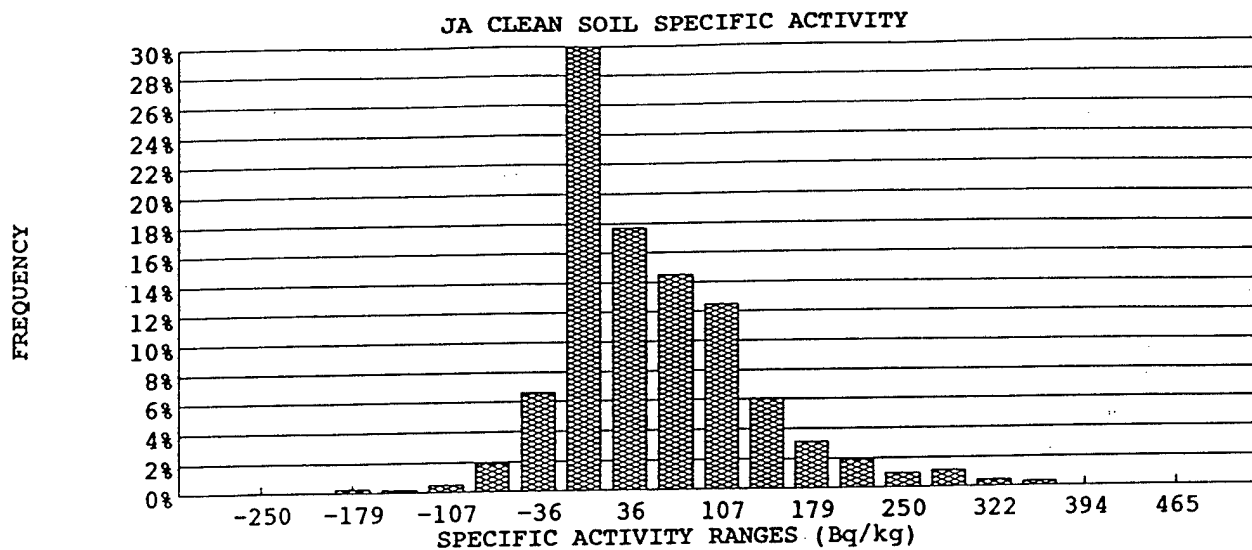
	SORTER 1	SORTER 2	SORTER 3	SORTER 4	TOTAL (sorter hours)
WORK HOURS	10.5 hr	10.5 hr	10.5 hr	10.5 hr	42.0 hr
SORTER AVAILABLE HOURS	10.1 hr	10.1 hr	0.0 hr	0.0 hr	20.2 hr
SORTER START-UP	06:15	06:15	NA	NA	
START SOIL PROCESSING	06:26	06:26	NA	NA	
TIME REQUIRED TO START-UP	0.2 hr	0.2 hr	0.0 hr	0.0 hr	0.4 hr
SORTER SHUT-DOWN	16:20	16:20	NA	NA	
END SOIL PROCESSING	16:04	16:06	NA	NA	
TIME REQUIRED TO SHUT DOWN	0.3 hr	0.2 hr	0.0 hr	0.0 hr	0.5 hr
ACTUAL PROCESS HOURS	8.9 hr	9.0 hr	0.0 hr	0.0 hr	17.9 hr
DOWN-TIME	1.2 hr	1.1 hr	0.0 hr	0.0 hr	2.3 hr
SYSTEM PAUSE	0.8 hr	0.7 hr	0.0 hr	0.0 hr	1.4 hr
SORTER NONAVAILABLE TIME	0.4 hr	0.4 hr	10.0 hr	10.0 hr	20.8 hr
AUTHORIZED DELAY TIME	0.0 hr	0.0 hr	10.0 hr	10.0 hr	20.0 hr
PLANT PERFORMANCE					88.8%
PRODUCTIVITY					42.6%

PRODUCTIVITY

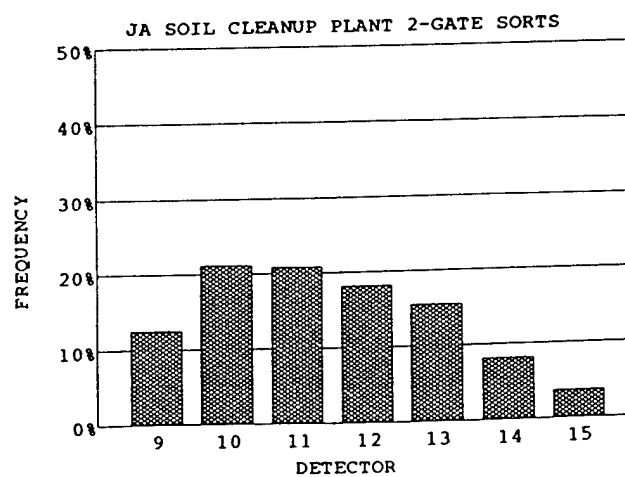
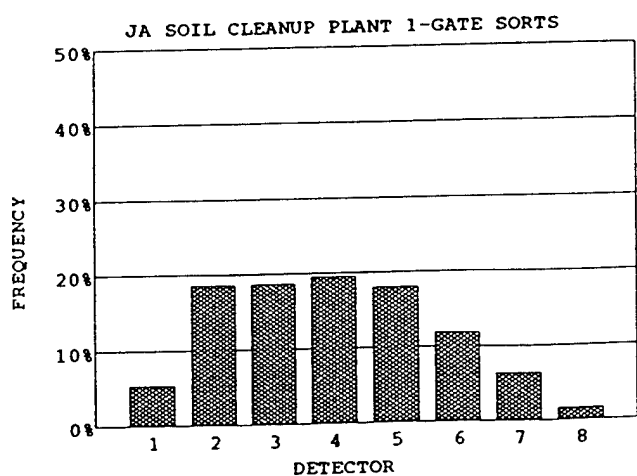
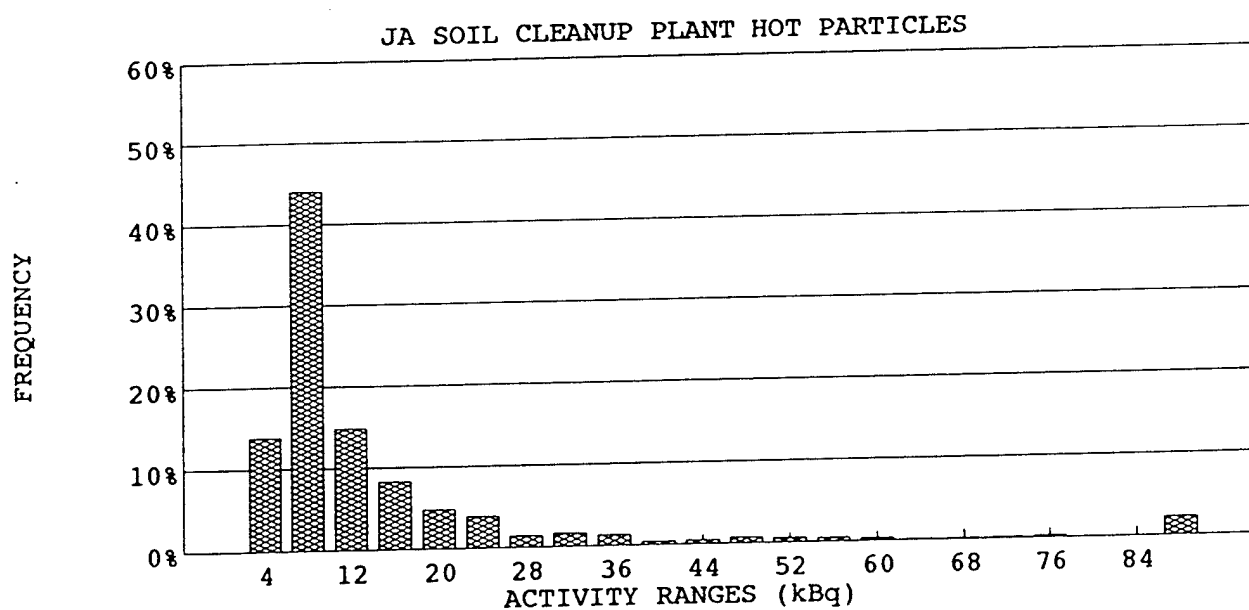
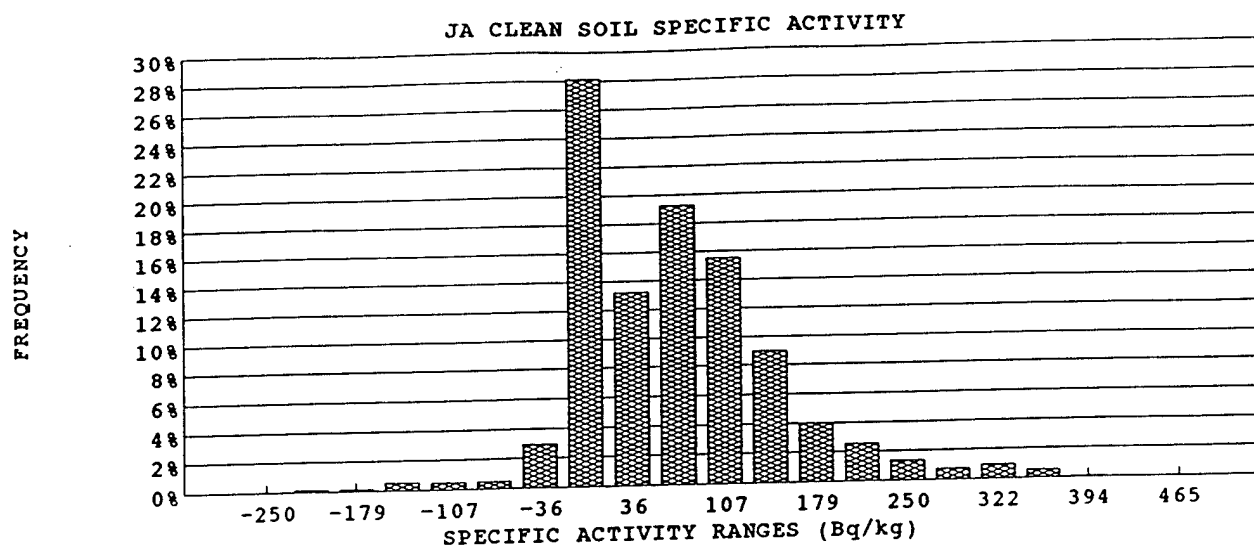
Date	01-Apr-94	Excused Delays for day (sorter-hrs)	20 hr
Contract day (from 6 Sep)	167	Excused delays for contract (sorter-hrs)	2,742 hr
Current Contract week	28	Excused delay days (plant-days)	69 days
		Excused delay months (plant-month)	2.64 months
Soil production for Day	180 MT		
Cumulative Soil Production for Week	670 MT	Percent of contract completed	38.4%
Total Soil production for contract		Tons Ahead or Behind Schedule	1,864 MT
Since 6 Sep 93	36,838 MT	Days ahead or behind schedule	6 days
Since 6 Aug 93	38,429 MT		
Total Soil production for project	64,716 MT		

MT = metric tons

SORTER 1				01-Apr-94					
SORTER SOIL DENSITY		1.20 tons/m ³		BACKGROUND		0.65 ± 0.03 c/s			
SOIL		CONTAMINATED		CLEAN		TOTAL			
MASS TOTAL		19.0 tons		70.4 tons		89.4 tons			
MAXIMUM/SORT		58.1 kg		55.9 kg					
MINIMUM/SORT		0.7 kg		48.9 kg					
VOLUME IN-GROUND		15.1 yd ³		55.8 yd ³		70.9 yd ³			
WEIGHT RECOVERY (CLEAN/(HOT+CLEAN))		78.8%							
ACTIVITY		PARTICLE		DISPERSED + PARTICLE					
		HOT		CLEAN					
TOTAL		38,414 kBq		30,141 kBq		3,325 kBq			
MAXIMUM/SORT		1,928 kBq		1,322 kBq		19 kBq			
MINIMUM/SORT		2 kBq		(17,894)Bq		-14 kBq			
SPECIFIC ACTIVITY				1,587 Bq/kg		47 Bq/kg			
SORTS									
20-SEC PROCESS PERIODS				1,599		UNEXP PAUSE			
ALL 80 ELEMENTS SORT (MD>0&MND=0)				333		TIME TIME			
NONE (AD=0 & MD=0 & MND>0)				1,018		12:49 09:46			
SOME (AD>0&0<MD<MNDmax&MND<MNDmax)				248		13:54 13:49			
UNEXPLAINED RECORDS				0		14:44			
0<AD<1kBq & MD>0				1					
AD=0 & MD>0				0					
AD<0 & MD >0				1					
2-SEC COUNT PERIODS				15,990					
2-SEC RECORDS WITH SORTS				1,961					
2-SEC RECORDS WITHOUT SORTS				14,029					
TOTAL PROCESS RECORDS (2-s SORTS and 20-s PERIODS)				3,560					
NONPROCESSING RECORDS (Test, calibration, etc)				1					
2-SEC SORT DETECTORS									
1 DET		1,336	68.1%	5 DET	9	0.5%			
2 DET		465	23.7%	6 DET	0	0.0%			
3 DET		118	6.0%	7 DET	0	0.0%			
4 DET		33	1.7%	8 DET	0	0.0%			
AVERAGE TIME BETWEEN 2-SEC SORTS				23.9 sec					
FREQUENCY DISTRIBUTIONS									
1-GATE SORTS			ACT_ND	NUM	SPEC_A	FREQ%	ACT_P	NUM	FREQ%
DET	SORTS	FREQ%	(Bq)	(#)	(Bq/kg)		(kBq)	(#)	
1	28	2.8%	-14000	1	-250	0.1%	4	136	6.9%
2	138	13.9%	-12000	1	-215	0.1%	8	890	45.4%
3	152	15.3%	-10000	4	-179	0.3%	12	330	16.8%
4	169	17.0%	-8000	3	-143	0.2%	16	155	7.9%
5	198	19.9%	-6000	8	-107	0.5%	20	93	4.7%
6	162	16.3%	-4000	30	-72	1.9%	24	61	3.1%
7	118	11.9%	-2000	106	-36	6.6%	28	56	2.9%
8	28	2.8%	0	510	0	31.9%	32	30	1.5%
TOTAL	993		2000	283	36	17.7%	36	24	1.2%
			4000	232	72	14.5%	40	22	1.1%
			6000	200	107	12.5%	44	17	0.9%
2-GATE SORTS			8000	97	143	6.1%	48	13	0.7%
DET	SORTS	FREQ%	10000	50	179	3.1%	52	12	0.6%
9	83	8.6%	12000	30	215	1.9%	56	10	0.5%
10	160	16.5%	14000	15	250	0.9%	60	14	0.7%
11	169	17.5%	16000	18	286	1.1%	64	6	0.3%
12	164	16.9%	18000	7	322	0.4%	68	4	0.2%
13	189	19.5%	20000	5	358	0.3%	72	5	0.3%
14	131	13.5%	22000	0	394	0.0%	76	7	0.4%
15	72	7.4%	24000	0	429	0.0%	80	7	0.4%
TOTAL	968		26000	0	465	0.0%	84	5	0.3%
			>28000	0	0	0.0%	>84	64	3.3%
			TOTAL	1,600			TOTAL	1,961	
EVENT TYPES		HPE	1,842	MPE	3686	DISE	21654		



SORTER 2				01-Apr-94						
SORTER SOIL DENSITY		1.20 tons/m³		BACKGROUND		0.72 ± 0.04 c/s				
SOIL		CONTAMINATED		CLEAN		TOTAL				
MASS TOTAL		19.4 tons		71.5 tons		90.8 tons				
MAXIMUM/SORT		58.1 kg		55.9 kg						
MINIMUM/SORT		0.7 kg		46.8 kg						
VOLUME IN-GROUND		15.3 yd³		56.7 yd³		72.0 yd³				
WEIGHT RECOVERY (CLEAN/(HOT+CLEAN))		78.7%								
ACTIVITY				DISPERSED + PARTICLE						
				PARTICLE		HOT		CLEAN		
TOTAL				34,459 kBq		28,164 kBq		4,931 kBq		
MAXIMUM/SORT				843 kBq		591 kBq		20 kBq		
MINIMUM/SORT				2 kBq		(16,192)Bq		-12 kBq		
SPECIFIC ACTIVITY						1,455 Bq/kg		69 Bq/kg		
SORTS										
20-SEC PROCESS PERIODS				1,625				UNEXP PAUSE		
ALL 80 ELEMENTS SORT (MD>0&MND=0)				338				TIME TIME		
NONE (AD=0 & MD=0 & MND>0)				1,013				12:44 09:46		
SOME (AD>0&0<MD<MNDmax&MND<MNDmax)				273				13:54 13:51		
UNEXPLAINED RECORDS				1				14:49 14:44		
0<AD<1kBq & MD>0				0						
AD=0 & MD>0				0						
AD<0 & MD >0				3						
2-SEC COUNT PERIODS				16,250						
2-SEC RECORDS WITH SORTS				2,212						
2-SEC RECORDS WITHOUT SORTS				14,038						
TOTAL PROCESS RECORDS (2-s SORTS and 20-s PERIODS)				3,837						
NONPROCESSING RECORDS (Test, calibration, etc)				1						
2-SEC SORT DETECTORS										
1 DET		1,517	68.6%	5 DET		2	0.1%			
2 DET		546	24.7%	6 DET		0	0.0%			
3 DET		121	5.5%	7 DET		0	0.0%			
4 DET		26	1.2%	8 DET		0	0.0%			
AVERAGE TIME BETWEEN 2-SEC SORTS				21.4 sec						
FREQUENCY DISTRIBUTIONS										
1-GATE SORTS			ACT_ND	NUM	SPEC_A	FREQ%	ACT_P	NUM	FREQ%	
DET	SORTS	FREQ%	(Bq)	(#)	(Bq/kg)		(kBq)	(#)		
1	59	5.4%	-14000	0	-250	0.0%	4	305	13.8%	
2	205	18.6%	-12000	2	-215	0.1%	8	973	44.0%	
3	206	18.7%	-10000	2	-179	0.1%	12	327	14.8%	
4	215	19.5%	-8000	9	-143	0.6%	16	184	8.3%	
5	198	18.0%	-6000	8	-107	0.5%	20	106	4.8%	
6	130	11.8%	-4000	8	-72	0.5%	24	86	3.9%	
7	70	6.4%	-2000	48	-36	3.0%	28	31	1.4%	
8	18	1.6%	0	457	0	28.1%	32	37	1.7%	
TOTAL	1,101		2000	215	36	13.2%	36	29	1.3%	
2-GATE SORTS			4000	313	72	19.2%	40	9	0.4%	
			6000	252	107	15.5%	44	10	0.5%	
DET	SORTS	FREQ%	8000	146	143	9.0%	48	17	0.8%	
9	139	12.5%	10000	65	179	4.0%	52	12	0.5%	
10	235	21.2%	12000	41	215	2.5%	56	10	0.5%	
11	232	20.9%	14000	22	250	1.4%	60	8	0.4%	
12	202	18.2%	16000	12	286	0.7%	64	2	0.1%	
13	172	15.5%	18000	16	322	1.0%	68	2	0.1%	
14	90	8.1%	20000	9	358	0.6%	72	5	0.2%	
15	41	3.7%	22000	1	394	0.1%	76	6	0.3%	
TOTAL	1,111		24000	0	429	0.0%	80	1	0.0%	
			26000	0	465	0.0%	84	1	0.0%	
			>28000	0	0	0.0%	>84	51	2.3%	
			TOTAL	1,626			TOTAL	2,212		
EVENT TYPES		HPE	2,050	MPE	4205	DISE	21442			



WORK HISTORY - JA SOIL CLEANUP PLANT

02-Apr-94

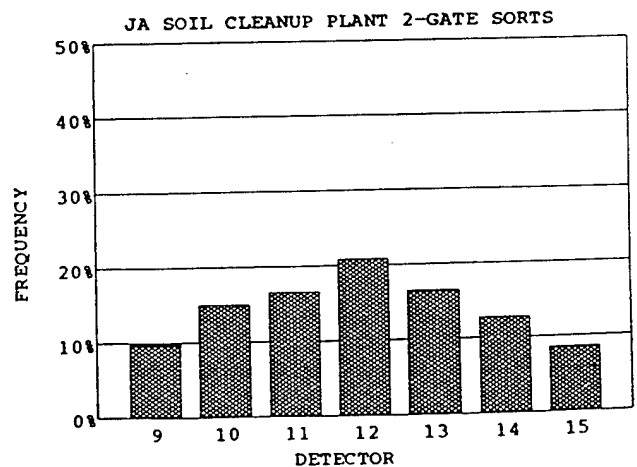
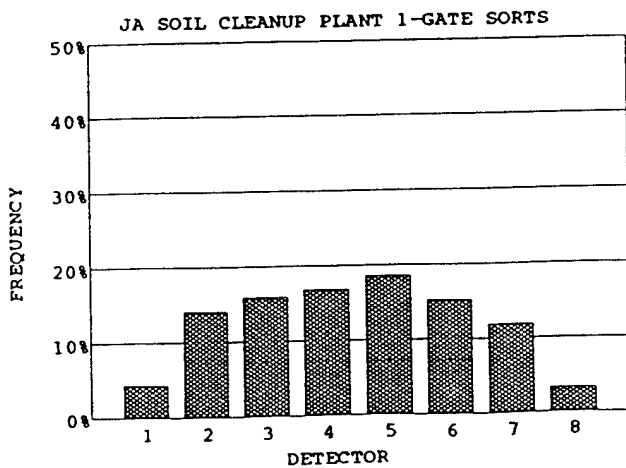
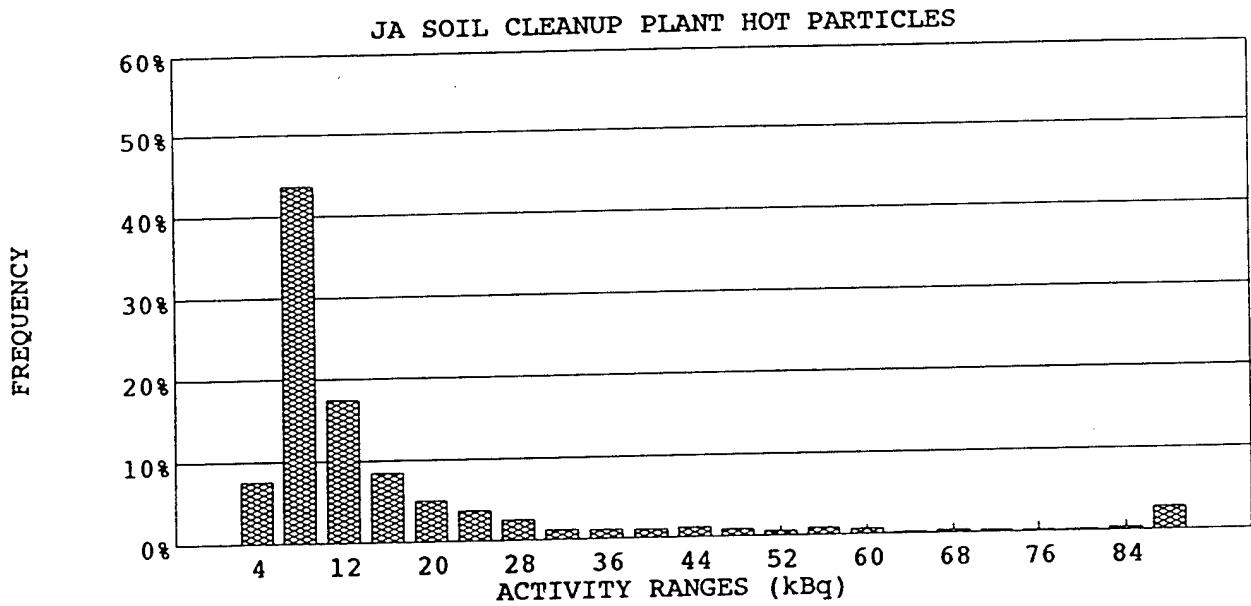
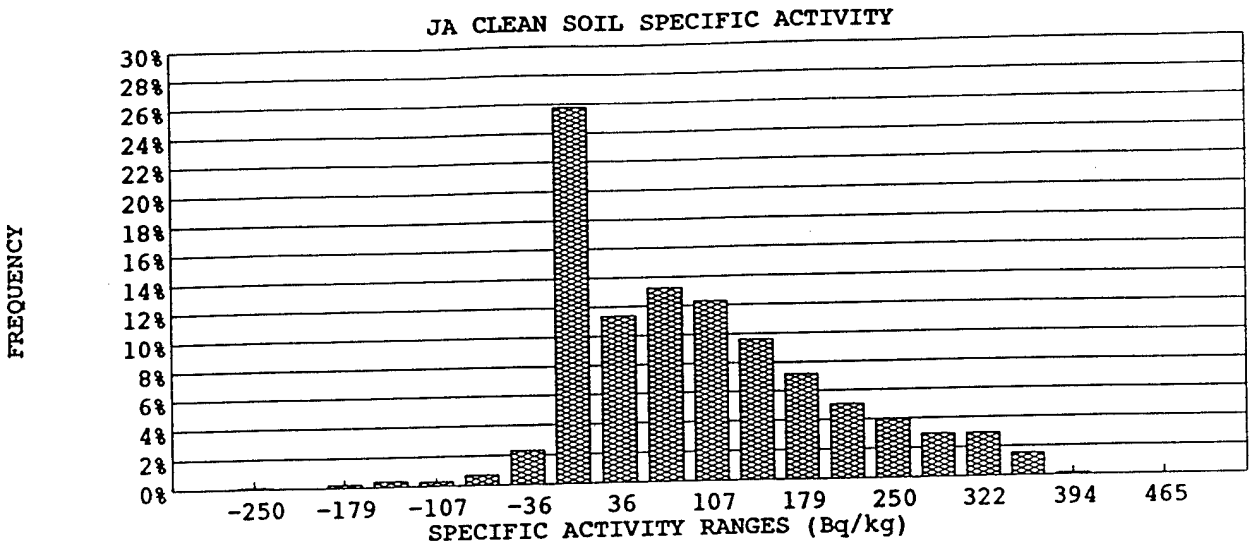
WORK DAY START	05:00 AM	WORK DAY END	15:30 PM		
LUNCH START	11:00 AM	TIME LOST DURING LUNCH	0.0 HR		
	SORTER 1	SORTER 2	SORTER 3	SORTER 4	TOTAL (sorter hours)
WORK HOURS	10.5 hr	10.5 hr	10.5 hr	10.5 hr	42.0 hr
SORTER AVAILABLE HOURS	7.7 hr	7.7 hr	0.0 hr	0.0 hr	15.3 hr
SORTER START-UP	05:20	05:20	NA	NA	
START SOIL PROCESSING	05:33	05:33	NA	NA	
TIME REQUIRED TO START-UP	0.2 hr	0.2 hr	0.0 hr	0.0 hr	0.5 hr
SORTER SHUT-DOWN	13:00	13:00	NA	NA	
END SOIL PROCESSING	12:43	12:42	NA	NA	
TIME REQUIRED TO SHUT DOWN	0.3 hr	0.3 hr	0.0 hr	0.0 hr	0.6 hr
ACTUAL PROCESS HOURS	7.0 hr	7.1 hr	0.0 hr	0.0 hr	14.1 hr
DOWN-TIME	0.6 hr	0.6 hr	0.0 hr	0.0 hr	1.2 hr
SYSTEM PAUSE	0.1 hr	0.1 hr	0.0 hr	0.0 hr	0.2 hr
SORTER NONAVAILABLE TIME	2.8 hr	2.8 hr	10.0 hr	10.0 hr	25.7 hr
AUTHORIZED DELAY TIME	0.0 hr	0.0 hr	10.0 hr	10.0 hr	20.0 hr
PLANT PERFORMANCE					91.9%
PRODUCTIVITY					33.6%

PRODUCTIVITY

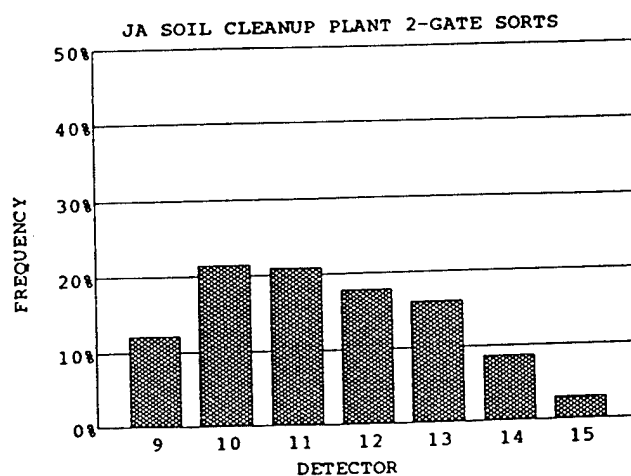
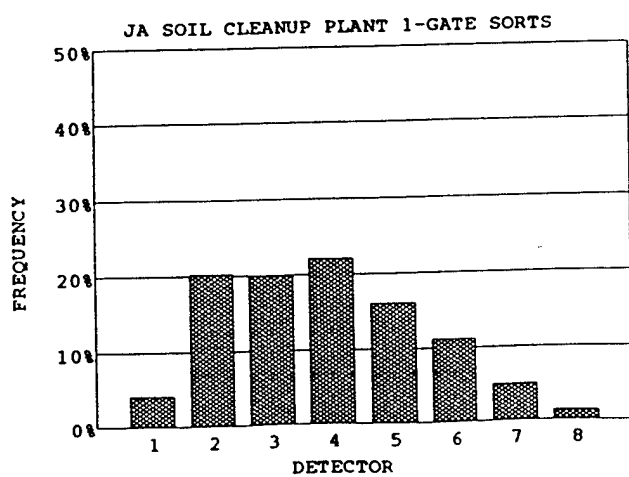
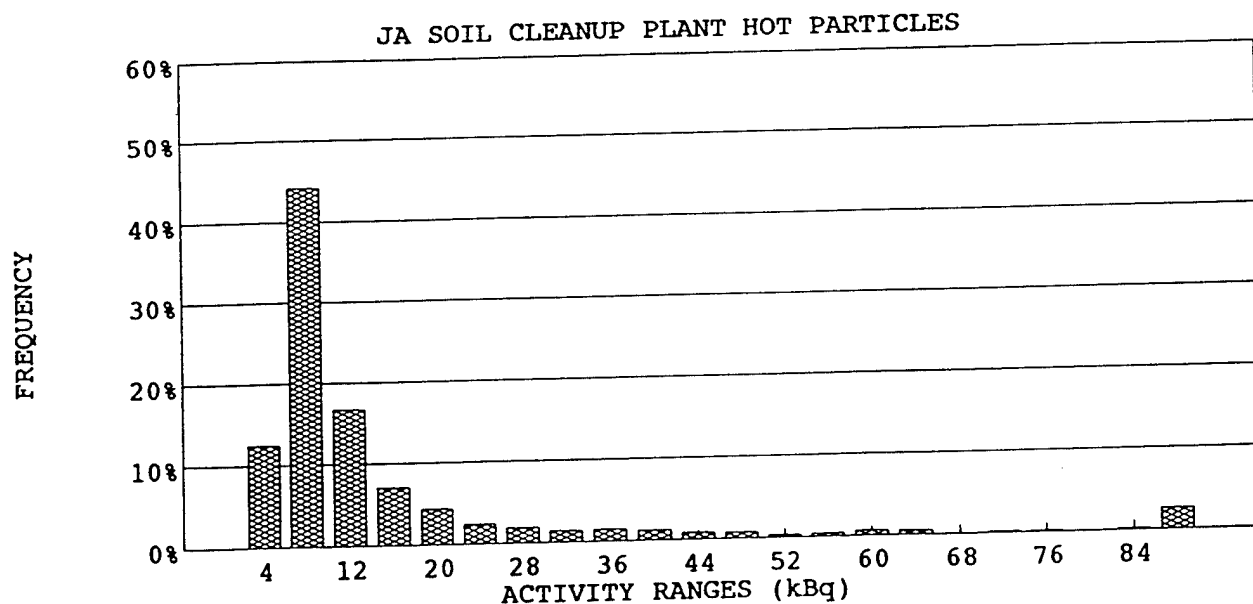
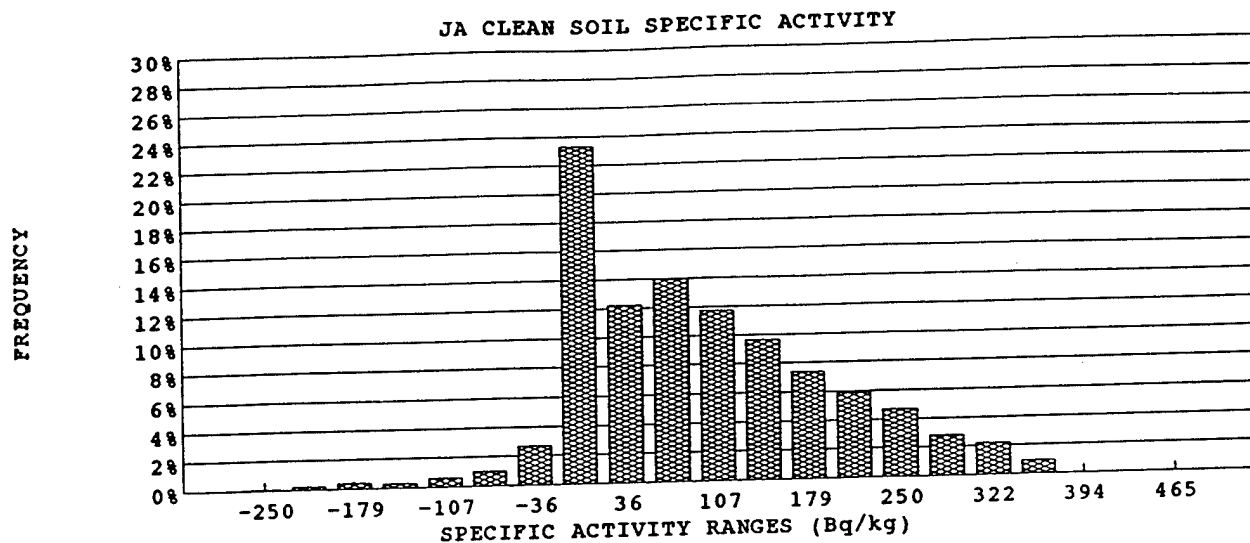
Date	02-Apr-94	Excused Delays for day (sorter-hrs)	20 hr
Contract day (from 6 Sep)	168	Excused delays for contract (sorter-hrs)	2,762 hr
Current Contract week	28	Excused delay days (plant-days)	69 days
		Excused delay months (plant-month)	2.66 months
Soil production for Day	142 MT		
Cumulative Soil Production for Week	811 MT	Percent of contract completed	38.6%
Total Soil production for contract		Tons Ahead or Behind Schedule	1,847 MT
Since 6 Sep 93	36,980 MT	Days ahead or behind schedule	6 days
Since 6 Aug 93	38,571 MT		
Total Soil production for project	64,858 MT		

MT = metric tons

SORTER 1				02-Apr-94					
SORTER SOIL DENSITY		1.20 tons/m ³		BACKGROUND		0.65 ± 0.02 c/s			
SOIL		CONTAMINATED		CLEAN		TOTAL			
MASS TOTAL		15.1 tons		55.6 tons		70.7 tons			
MAXIMUM/SORT		55.9 kg		55.9 kg					
MINIMUM/SORT		0.7 kg		43.3 kg					
VOLUME IN-GROUND		11.9 yd ³		44.1 yd ³		56.0 yd ³			
WEIGHT RECOVERY (CLEAN/(HOT+CLEAN))		78.7%							
ACTIVITY		PARTICLE		DISPERSED + PARTICLE					
				HOT		CLEAN			
TOTAL		35,375 kBq		22,460 kBq		5,707 kBq			
MAXIMUM/SORT		4,384 kBq		3,158 kBq		20 kBq			
MINIMUM/SORT		2 kBq		0 Bq		-15 kBq			
SPECIFIC ACTIVITY				1,491 Bq/kg		103 Bq/kg			
SORTS									
20-SEC PROCESS PERIODS				1,264		UNEXP PAUSE			
ALL 80 ELEMENTS SORT (MD>0&MND=0)				257		TIME TIME			
NONE (AD=0 & MD=0 & MND>0)				609		07:36 09:32			
SOME (AD>0&0<MD<MNDmax&MND<MNDmax)				398					
UNEXPLAINED RECORDS				0					
0<AD<1kBq & MD>0				1					
AD=0 & MD>0				0					
AD<0 & MD >0				0					
2-SEC COUNT PERIODS				12,640					
2-SEC RECORDS WITH SORTS				1,509					
2-SEC RECORDS WITHOUT SORTS				11,131					
TOTAL PROCESS RECORDS (2-s SORTS and 20-s PERIODS)				2,773					
NONPROCESSING RECORDS (Test, calibration, etc)				4					
2-SEC SORT DETECTORS									
1 DET		1,084	71.8%	5 DET	0	0.0%			
2 DET		344	22.8%	6 DET	0	0.0%			
3 DET		64	4.2%	7 DET	0	0.0%			
4 DET		17	1.1%	8 DET	0	0.0%			
AVERAGE TIME BETWEEN 2-SEC SORTS				23.3 sec					
FREQUENCY DISTRIBUTIONS									
1-GATE SORTS			ACT_ND	NUM	SPEC_A	FREQ%	ACT_P	NUM	FREQ%
DET	SORTS	FREQ%	(Bq)	(#)	(Bq/kg)		(kBq)	(#)	
1	33	4.3%	-14000	1	-250	0.1%	4	114	7.6%
2	107	14.0%	-12000	0	-215	0.0%	8	659	43.7%
3	121	15.9%	-10000	3	-179	0.2%	12	263	17.4%
4	128	16.8%	-8000	5	-143	0.4%	16	128	8.5%
5	142	18.6%	-6000	4	-107	0.3%	20	76	5.0%
6	116	15.2%	-4000	9	-72	0.7%	24	56	3.7%
7	90	11.8%	-2000	29	-36	2.3%	28	37	2.5%
8	25	3.3%	0	327	0	25.8%	32	18	1.2%
TOTAL	762		2000	144	36	11.4%	36	17	1.1%
			4000	168	72	13.2%	40	15	1.0%
			6000	156	107	12.3%	44	18	1.2%
2-GATE SORTS			8000	122	143	9.6%	48	13	0.9%
DET	SORTS	FREQ%	10000	91	179	7.2%	52	8	0.5%
9	73	9.8%	12000	64	215	5.0%	56	13	0.9%
10	112	15.0%	14000	50	250	3.9%	60	9	0.6%
11	124	16.6%	16000	37	286	2.9%	64	3	0.2%
12	156	20.9%	18000	37	322	2.9%	68	5	0.3%
13	123	16.5%	20000	19	358	1.5%	72	4	0.3%
14	95	12.7%	22000	2	394	0.2%	76	3	0.2%
15	64	8.6%	24000	0	429	0.0%	80	3	0.2%
TOTAL	747		26000	0	465	0.0%	84	5	0.3%
			>28000	0	0	0.0%	>84	42	2.8%
			TOTAL	1,268			TOTAL	1,509	
EVENT TYPES		HPE	1,449	MPE	1962	DISE	18140		



SORTER 2				02-Apr-94					
SORTER SOIL DENSITY			1.20 tons/m ³	BACKGROUND		0.74 ±	0.03 c/s		
SOIL		CONTAMINATED		CLEAN		TOTAL			
MASS TOTAL		12.6 tons		58.5 tons		71.2 tons			
MAXIMUM/SORT		55.9 kg		55.9 kg					
MINIMUM/SORT		0.7 kg		46.1 kg					
VOLUME IN-GROUND		10.0 yd ³		46.4 yd ³		56.4 yd ³			
WEIGHT RECOVERY (CLEAN/(HOT+CLEAN))		82.3%							
ACTIVITY				DISPERSED + PARTICLE					
		PARTICLE		HOT		CLEAN			
TOTAL		28,795 kBq		18,150 kBq		5,542 kBq			
MAXIMUM/SORT		3,002 kBq		1,571 kBq		20 kBq			
MINIMUM/SORT		2 kBq		(61)Bq		-15 kBq			
SPECIFIC ACTIVITY				1,437 Bq/kg		95 Bq/kg			
SORTS									
20-SEC PROCESS PERIODS				1,273		UNEXP PAUSE			
ALL 80 ELEMENTS SORT (MD>0&MND=0)				213		TIME TIME			
NONE (AD=0 & MD=0 & MND>0)				645		10:07 09:35			
SOME (AD>0&0<MD<MNDmax&MND<MNDmax)				413		11:37			
UNEXPLAINED RECORDS				2		11:48			
0<AD<1kBq & MD>0				3		11:49			
AD=0 & MD>0				0		12:14			
AD<0 & MD >0				2					
2-SEC COUNT PERIODS				12,730					
2-SEC RECORDS WITH SORTS				1,456					
2-SEC RECORDS WITHOUT SORTS				11,274					
TOTAL PROCESS RECORDS (2-s SORTS and 20-s PERIODS)				2,729					
NONPROCESSING RECORDS (Test, calibration, etc)				5					
2-SEC SORT DETECTORS									
1 DET		1,005	69.0%	5 DET	3	0.2%			
2 DET		345	23.7%	6 DET	0	0.0%			
3 DET		82	5.6%	7 DET	0	0.0%			
4 DET		21	1.4%	8 DET	0	0.0%			
AVERAGE TIME BETWEEN 2-SEC SORTS				25.3 sec					
FREQUENCY DISTRIBUTIONS									
1-GATE SORTS			ACT_ND	NUM	SPEC_A	FREQ%	ACT_P	NUM	FREQ%
DET	SORTS	FREQ%	(Bq)	(#)	(Bq/kg)		(kBq)	(#)	
1	30	4.1%	-14000	1	-250	0.1%	4	182	12.5%
2	148	20.3%	-12000	3	-215	0.2%	8	643	44.2%
3	146	20.0%	-10000	5	-179	0.4%	12	243	16.7%
4	161	22.1%	-8000	4	-143	0.3%	16	103	7.1%
5	117	16.0%	-6000	8	-107	0.6%	20	64	4.4%
6	81	11.1%	-4000	13	-72	1.0%	24	35	2.4%
7	36	4.9%	-2000	34	-36	2.7%	28	28	1.9%
8	10	1.4%	0	298	0	23.3%	32	21	1.4%
TOTAL			2000	156	36	12.2%	36	22	1.5%
			4000	178	72	13.9%	40	18	1.2%
			6000	150	107	11.7%	44	13	0.9%
2-GATE SORTS			8000	123	143	9.6%	48	12	0.8%
9	88	12.1%	10000	94	179	7.4%	52	5	0.3%
10	156	21.5%	12000	75	215	5.9%	56	6	0.4%
11	152	20.9%	14000	60	250	4.7%	60	9	0.6%
12	130	17.9%	16000	36	286	2.8%	64	8	0.5%
13	117	16.1%	18000	28	322	2.2%	68	0	0.0%
14	63	8.7%	20000	12	358	0.9%	72	2	0.1%
15	21	2.9%	22000	0	394	0.0%	76	2	0.1%
TOTAL			24000	0	429	0.0%	80	0	0.0%
			26000	0	465	0.0%	84	2	0.1%
			>28000	0	0	0.0%	>84	38	2.6%
			TOTAL	1,278			TOTAL	1,456	
EVENT TYPES			HPE	1,380	MPE	2114	DISE	14578	



WORK HISTORY - JA SOIL CLEANUP PLANT

04-Apr-94

WORK DAY START	06:00	AM	WORK DAY END	16:30	PM
LUNCH START	11:00	AM	TIME LOST DURING LUNCH	0.5	HR

	SORTER 1	SORTER 2	SORTER 3	SORTER 4	TOTAL (sorter hours)
WORK HOURS	10.0 hr	10.0 hr	10.0 hr	10.0 hr	40.0 hr
SORTER AVAILABLE HOURS	0.0 hr	0.0 hr	0.0 hr	0.0 hr	0.0 hr
SORTER START-UP	NA	NA	NA	NA	
START SOIL PROCESSING	NA	NA	NA	NA	
TIME REQUIRED TO START-UP	0.0 hr	0.0 hr	0.0 hr	0.0 hr	0.0 hr
SORTER SHUT-DOWN	NA	NA	NA	NA	
END SOIL PROCESSING	NA	NA	NA	NA	
TIME REQUIRED TO SHUT DOWN	0.0 hr	0.0 hr	0.0 hr	0.0 hr	0.0 hr
ACTUAL PROCESS HOURS	0.0 hr	0.0 hr	0.0 hr	0.0 hr	0.0 hr
DOWN-TIME	0.0 hr	0.0 hr	0.0 hr	0.0 hr	0.0 hr
SYSTEM PAUSE	0.0 hr	0.0 hr	0.0 hr	0.0 hr	0.0 hr
SORTER NONAVAILABLE TIME	10.0 hr	10.0 hr	10.0 hr	10.0 hr	40.0 hr
AUTHORIZED DELAY TIME	0.0 hr	0.0 hr	10.0 hr	10.0 hr	20.0 hr
PLANT PERFORMANCE					NA
PRODUCTIVITY					0.0%

PRODUCTIVITY

Date	04-Apr-94	Excused Delays for day (sorter-hrs)	20 hr
Contract day (from 6 Sep)	169	Excused delays for contract (sorter-hrs)	2,782 hr
Current Contract week	29	Excused delay days (plant-days)	70 days
		Excused delay months (plant-month)	2.68 months
Soil production for Day	0 MT		
Cumulative Soil Production for Week	0 MT	Percent of contract completed	38.6%
Total Soil production for contract		Tons Ahead or Behind Schedule	1,689 MT
Since 6 Sep 93	36,980 MT	Days ahead or behind schedule	5 days
Since 6 Aug 93	38,571 MT		
Total Soil production for project	64,858 MT		

MT = metric tons

WORK HISTORY - JA SOIL CLEANUP PLANT

05-Apr-94

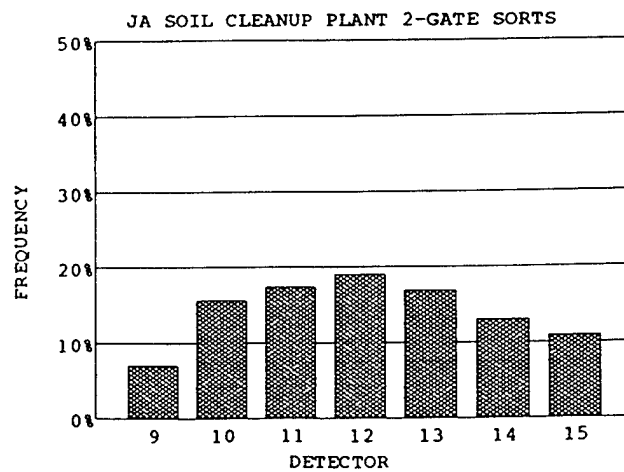
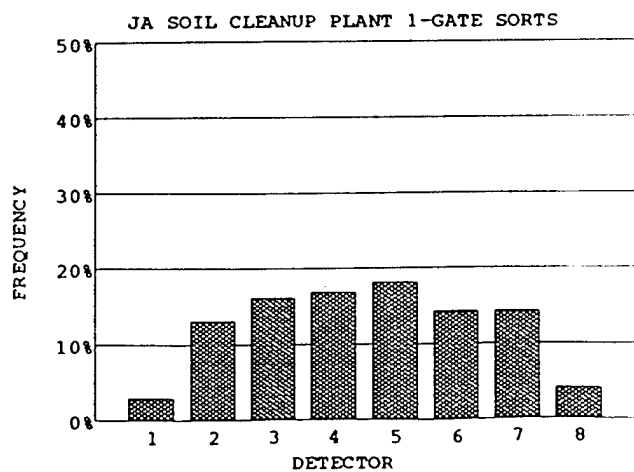
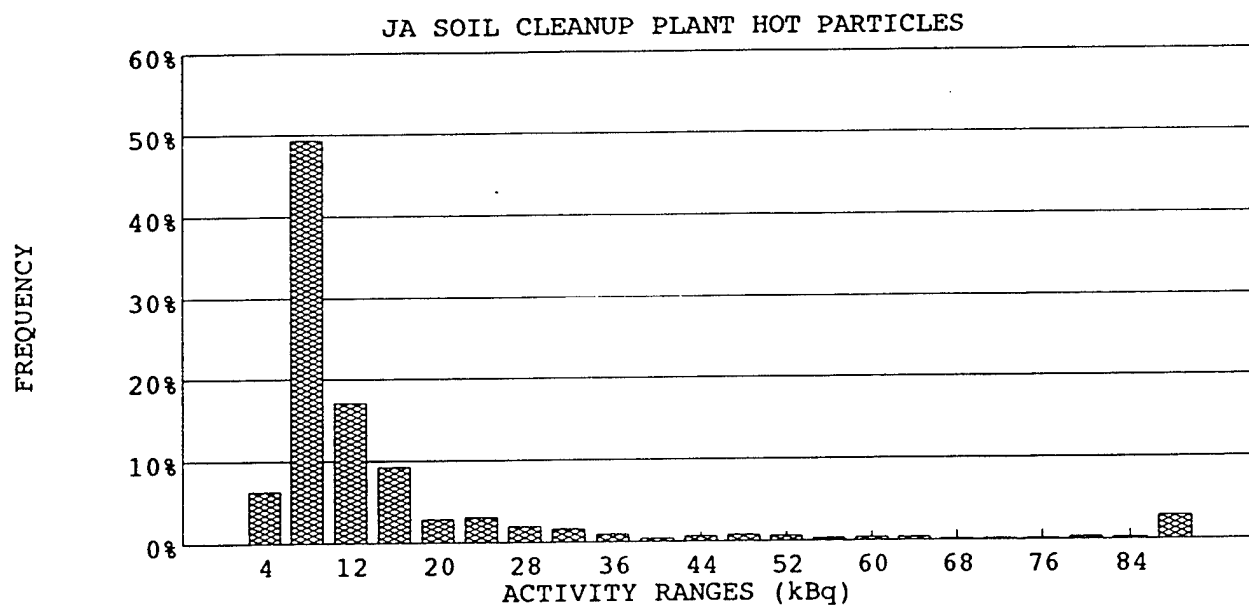
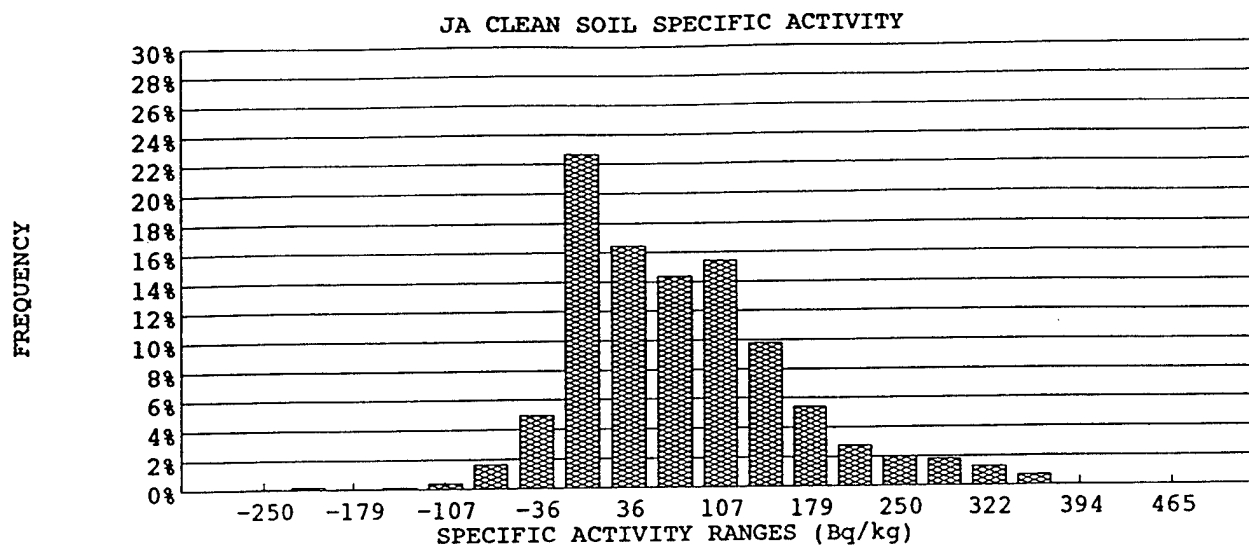
WORK DAY START	06:00 AM	WORK DAY END	16:30 PM		
LUNCH START	11:00 AM	TIME LOST DURING LUNCH	0.0 HR		
	SORTER 1	SORTER 2	SORTER 3	SORTER 4	TOTAL (sorter hours)
WORK HOURS	10.5 hr	10.5 hr	10.5 hr	10.5 hr	42.0 hr
SORTER AVAILABLE HOURS	10.3 hr	10.3 hr	0.0 hr	0.0 hr	20.7 hr
SORTER START-UP	06:00	06:00	NA	NA	
START SOIL PROCESSING	06:07	06:07	NA	NA	
TIME REQUIRED TO START-UP	0.1 hr	0.1 hr	0.0 hr	0.0 hr	0.3 hr
SORTER SHUT-DOWN	16:20	16:20	NA	NA	
END SOIL PROCESSING	16:08	16:06	NA	NA	
TIME REQUIRED TO SHUT DOWN	0.2 hr	0.2 hr	0.0 hr	0.0 hr	0.4 hr
ACTUAL PROCESS HOURS	9.5 hr	9.5 hr	0.0 hr	0.0 hr	19.0 hr
DOWN-TIME	0.8 hr	0.8 hr	0.0 hr	0.0 hr	1.6 hr
SYSTEM PAUSE	0.5 hr	0.5 hr	0.0 hr	0.0 hr	1.0 hr
SORTER NONAVAILABLE TIME	0.2 hr	0.2 hr	10.0 hr	10.0 hr	20.3 hr
AUTHORIZED DELAY TIME	0.0 hr	0.0 hr	10.0 hr	10.0 hr	20.0 hr
PLANT PERFORMANCE					92.1%
PRODUCTIVITY					45.3%

PRODUCTIVITY

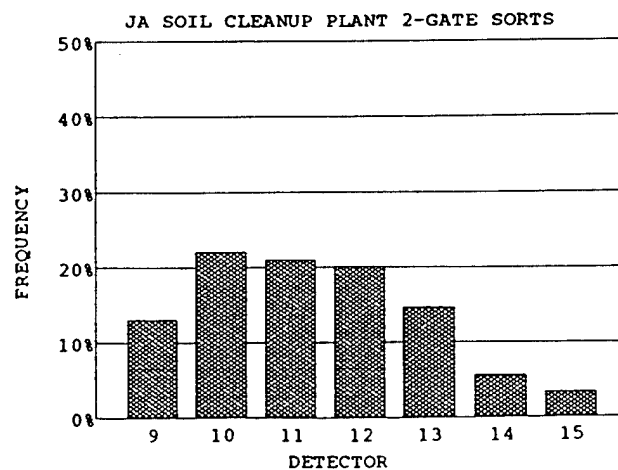
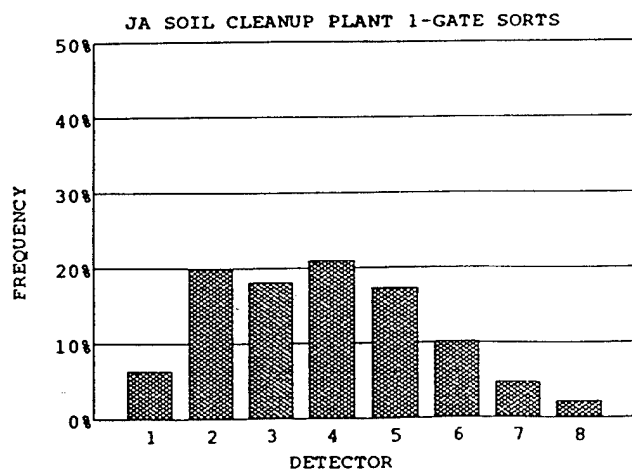
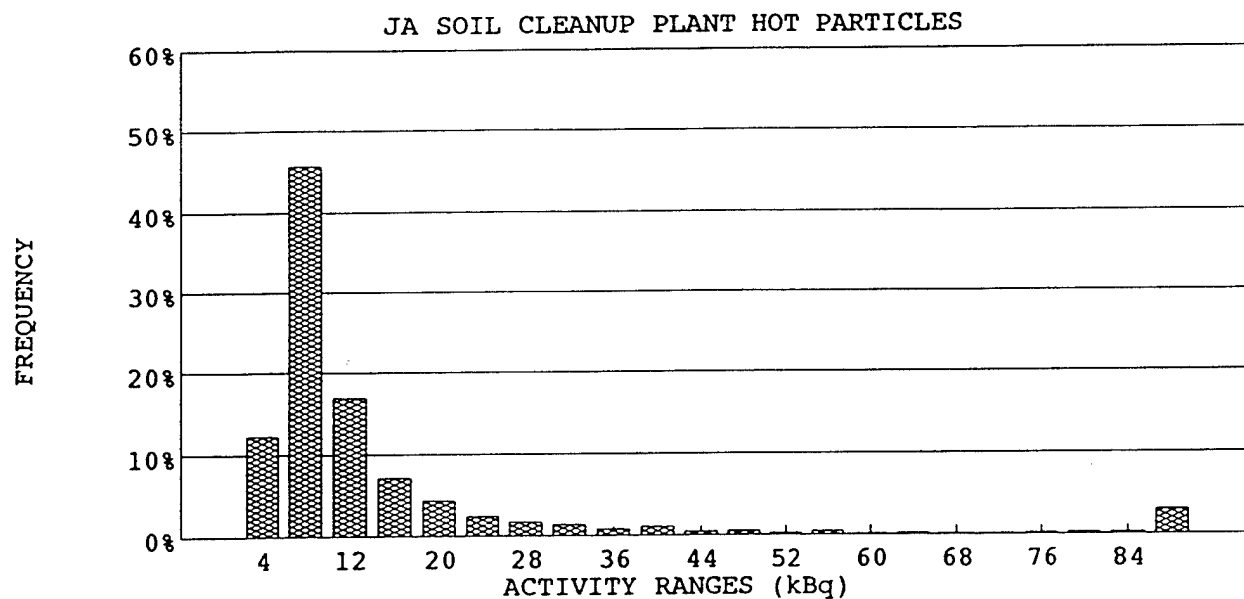
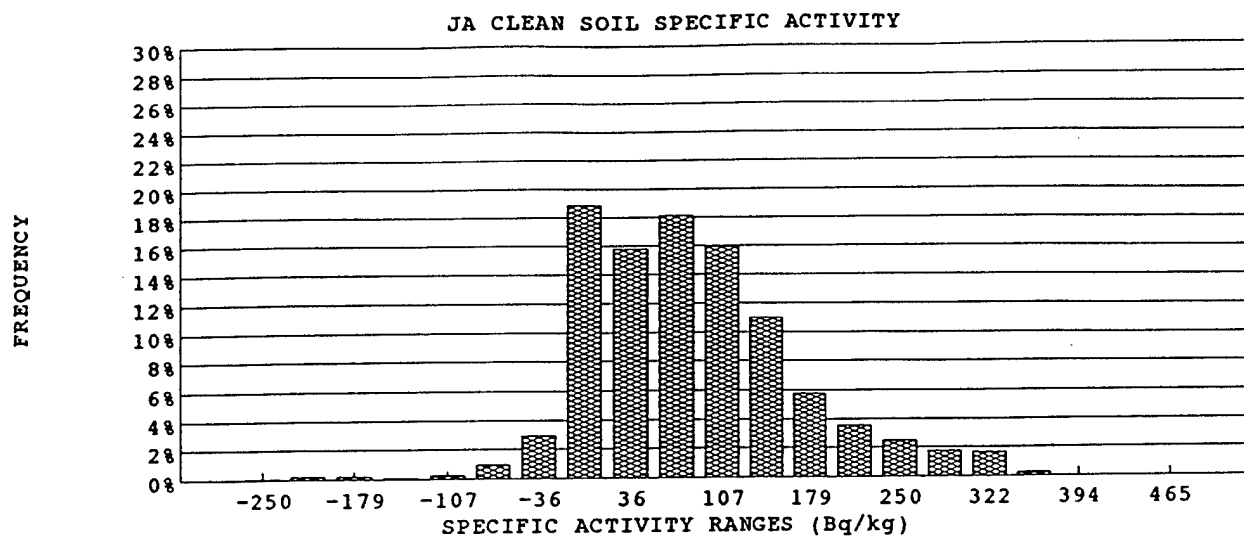
Date	05-Apr-94	Excused Delays for day (sorter-hrs)	20 hr
Contract day (from 6 Sep)	170	Excused delays for contract (sorter-hrs)	2,802 hr
Current Contract week	29	Excused delay days (plant-days)	70 days
		Excused delay months (plant-month)	2.69 months
Soil production for Day	192 MT		
Cumulative Soil Production for Week	192 MT	Percent of contract completed	38.8%
Total Soil production for contract		Tons Ahead or Behind Schedule	1,722 MT
Since 6 Sep 93	37,171 MT	Days ahead or behind schedule	5 days
Since 6 Aug 93	38,762 MT		
Total Soil production for project	65,049 MT		

MT = metric tons

SORTER 1				05-Apr-94					
SORTER SOIL DENSITY		1.20 tons/m³		BACKGROUND		0.66 ± 0.02 c/s			
SOIL		CONTAMINATED		CLEAN		TOTAL			
MASS TOTAL		10.8 tons		85.1 tons		95.9 tons			
MAXIMUM/SORT		58.1 kg		55.9 kg					
MINIMUM/SORT		0.7 kg		48.9 kg					
VOLUME IN-GROUND		8.6 yd³		67.4 yd³		76.0 yd³			
WEIGHT RECOVERY (CLEAN/(HOT+CLEAN))		88.7%							
ACTIVITY		PARTICLE		DISPERSED + PARTICLE					
		HOT		CLEAN					
TOTAL		23,405 kBq		16,978 kBq		5,681 kBq			
MAXIMUM/SORT		1,738 kBq		1,020 kBq		20 kBq			
MINIMUM/SORT		3 kBq		(25,426)Bq		-14 kBq			
SPECIFIC ACTIVITY				1,565 Bq/kg		67 Bq/kg			
SORTS				1,716		UNEXP	PAUSE		
20-SEC PROCESS PERIODS						TIME	TIME		
ALL 80 ELEMENTS SORT (MD>0&MND=0)				183					
NONE (AD=0 & MD=0 & MND>0)				1,139		15:31	06:07		
SOME (AD>0&0<MD<MNDmax&MND<MNDmax)				394			15:27		
UNEXPLAINED RECORDS				0					
0<AD<1kBq & MD>0				0					
AD=0 & MD>0				0					
AD<0 & MD >0				1					
2-SEC COUNT PERIODS				17,160					
2-SEC RECORDS WITH SORTS				1,277					
2-SEC RECORDS WITHOUT SORTS				15,883					
TOTAL PROCESS RECORDS (2-s SORTS and 20-s PERIODS)				2,993					
NONPROCESSING RECORDS (Test, calibration, etc)				1					
2-SEC SORT DETECTORS									
1 DET	901	70.6%	5 DET	2	0.2%				
2 DET	306	24.0%	6 DET	0	0.0%				
3 DET	56	4.4%	7 DET	0	0.0%				
4 DET	12	0.9%	8 DET	0	0.0%				
AVERAGE TIME BETWEEN 2-SEC SORTS				38.1 sec					
FREQUENCY DISTRIBUTIONS									
1-GATE SORTS			ACT_ND	NUM	SPEC_A	FREQ%	ACT_P	NUM	FREQ%
DET	SORTS	FREQ%	(Bq)	(#)	(Bq/kg)		(kBq)	(#)	
1	19	2.9%	-14000	1	-250	0.1%	4	81	6.3%
2	86	13.1%	-12000	3	-215	0.2%	8	630	49.3%
3	106	16.2%	-10000	1	-179	0.1%	12	219	17.1%
4	111	16.9%	-8000	2	-143	0.1%	16	118	9.2%
5	119	18.1%	-6000	7	-107	0.4%	20	37	2.9%
6	94	14.3%	-4000	28	-72	1.6%	24	40	3.1%
7	94	14.3%	-2000	85	-36	5.0%	28	25	2.0%
8	27	4.1%	0	389	0	22.7%	32	21	1.6%
TOTAL	656		2000	282	36	16.4%	36	12	0.9%
			4000	247	72	14.4%	40	5	0.4%
			6000	265	107	15.4%	44	8	0.6%
2-GATE SORTS			8000	168	143	9.8%	48	10	0.8%
DET	SORTS	FREQ%							
9	44	7.1%	10000	93	179	5.4%	52	8	0.6%
10	97	15.6%	12000	47	215	2.7%	56	4	0.3%
11	108	17.4%	14000	34	250	2.0%	60	5	0.4%
12	118	19.0%	16000	31	286	1.8%	64	5	0.4%
13	105	16.9%	18000	22	322	1.3%	68	2	0.2%
14	81	13.0%	20000	12	358	0.7%	72	2	0.2%
15	68	11.0%	22000	0	394	0.0%	76	2	0.2%
TOTAL	621		24000	0	429	0.0%	80	4	0.3%
			26000	0	465	0.0%	84	3	0.2%
			>28000	0	0	0.0%	>84	36	2.8%
			TOTAL	1,717			TOTAL	1,277	
EVENT TYPES		HPE	1,218	MPE	2110	DISE	12195		



SORTER 2		05-Apr-94			
SORTER SOIL DENSITY		1.20 tons/m ³		BACKGROUND	
SOIL		CONTAMINATED		CLEAN	TOTAL
MASS TOTAL		9.8 tons		85.8 tons	95.6 tons
MAXIMUM/SORT		58.1 kg		55.9 kg	
MINIMUM/SORT		0.7 kg		44.7 kg	
VOLUME IN-GROUND		7.8 yd ³		68.0 yd ³	75.8 yd ³
WEIGHT RECOVERY (CLEAN/(HOT+CLEAN))		89.7%			
ACTIVITY		DISPERSED + PARTICLE			
		PARTICLE	HOT	CLEAN	
TOTAL		49,235 kBq	23,949 kBq	6,575 kBq	
MAXIMUM/SORT		5,390 kBq	3,731 kBq	20 kBq	
MINIMUM/SORT		2 kBq	(19,987)Bq	-12 kBq	
SPECIFIC ACTIVITY			2,440 Bq/kg	77 Bq/kg	
SORTS			1,711	UNEXP	PAUSE
20-SEC PROCESS PERIODS				TIME	TIME
ALL 80 ELEMENTS SORT (MD>0&MND=0)		162		06:07	06:08
NONE (AD=0 & MD=0 & MND>0)		1,115		08:40	15:27
SOME (AD>0&0<MD<MNDmax&MND<MNDmax)		434		15:31	
UNEXPLAINED RECORDS		0			
0<AD<1kBq & MD>0		1			
AD=0 & MD>0		0			
AD<0 & MD >0		2			
2-SEC COUNT PERIODS			17,110		
2-SEC RECORDS WITH SORTS		1,503			
2-SEC RECORDS WITHOUT SORTS		15,607			
TOTAL PROCESS RECORDS (2-s SORTS and 20-s PERIODS)			3,214		
NONPROCESSING RECORDS (Test, calibration, etc)			7		
2-SEC SORT DETECTORS					
1 DET	1,040 69.2%	5 DET	9	0.6%	
2 DET	364 24.2%	6 DET	0	0.0%	
3 DET	73 4.9%	7 DET	1	0.1%	
4 DET	17 1.1%	8 DET	0	0.0%	
AVERAGE TIME BETWEEN 2-SEC SORTS		32.9 sec			
FREQUENCY DISTRIBUTIONS					
1-GATE SORTS		ACT_ND	NUM	SPEC_A FREQ%	ACT_P
DET	SORTS	(Bq)	(#)	(Bq/kg)	(kBq)
1	47	-14000	1	-250 0.1%	4
2	148	-12000	4	-215 0.2%	8
3	134	-10000	4	-179 0.2%	12
4	155	-8000	2	-143 0.1%	16
5	128	-6000	5	-107 0.3%	20
6	75	-4000	17	-72 1.0%	24
7	35	-2000	50	-36 2.9%	28
8	16	0	324	0 18.9%	32
TOTAL	738	2000	271	36 15.8%	36
		4000	311	72 18.1%	40
		6000	273	107 15.9%	44
2-GATE SORTS		8000	189	143 11.0%	48
DET	SORTS	10000	99	179 5.8%	52
9	100	12000	61	215 3.6%	56
10	169	14000	43	250 2.5%	60
11	161	16000	30	286 1.7%	64
12	154	18000	29	322 1.7%	68
13	112	20000	5	358 0.3%	72
14	43	22000	0	394 0.0%	76
15	26	24000	0	429 0.0%	80
TOTAL	765	26000	0	465 0.0%	84
		>28000	0	0 0.0%	>84
		TOTAL	1,718		TOTAL
EVENT TYPES		HPE	1,458	MPE	2108
				DISE	10477



WORK HISTORY - JA SOIL CLEANUP PLANT

06-Apr-94

WORK DAY START	06:00 AM	WORK DAY END	16:30 PM
LUNCH START	11:00 AM	TIME LOST DURING LUNCH	0.0 HR

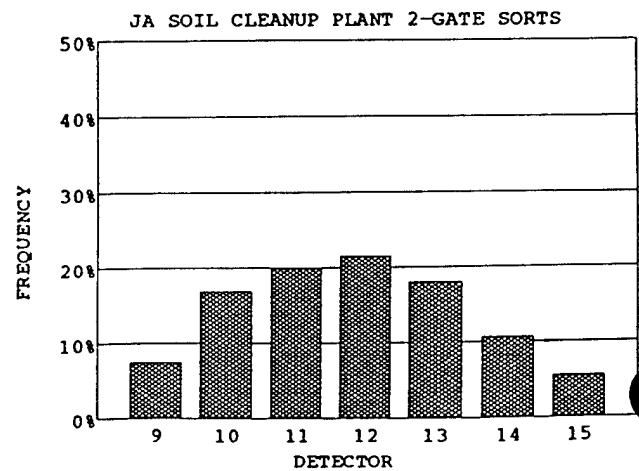
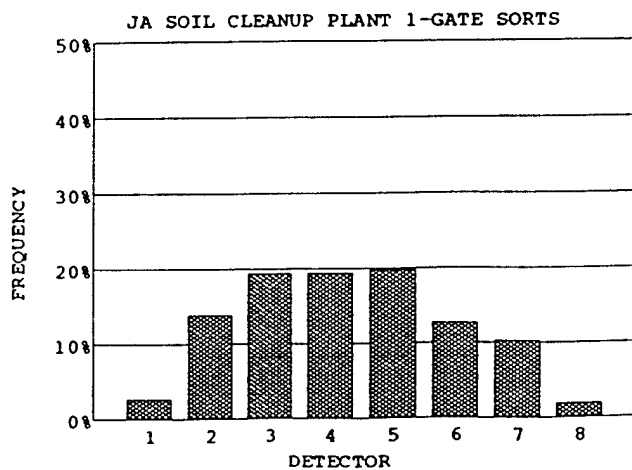
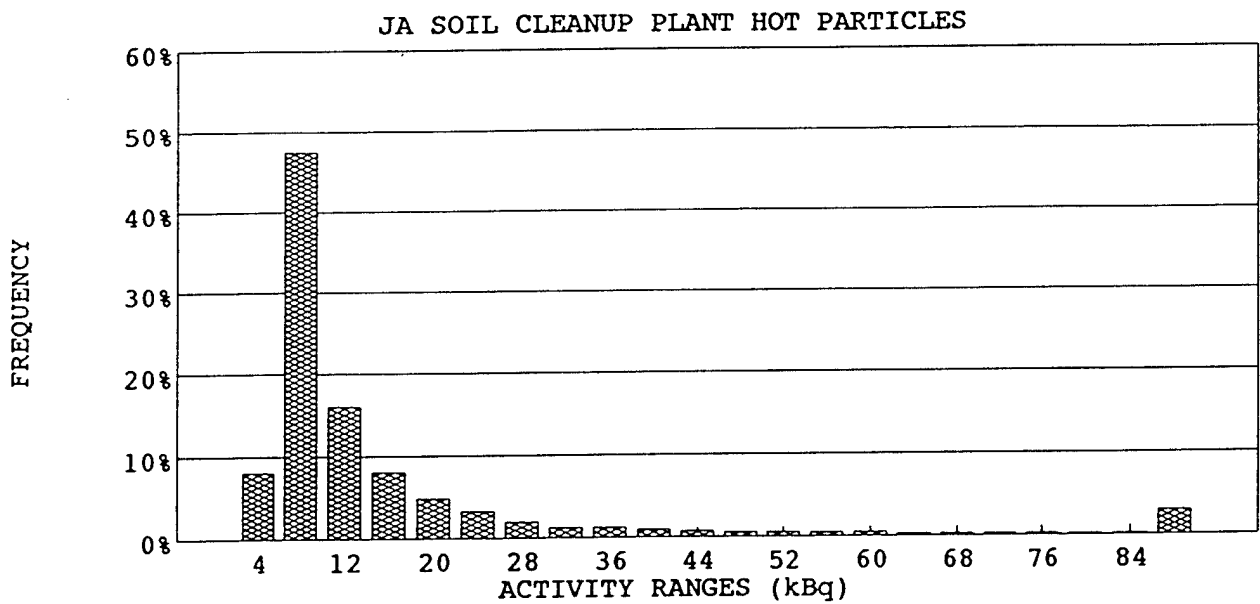
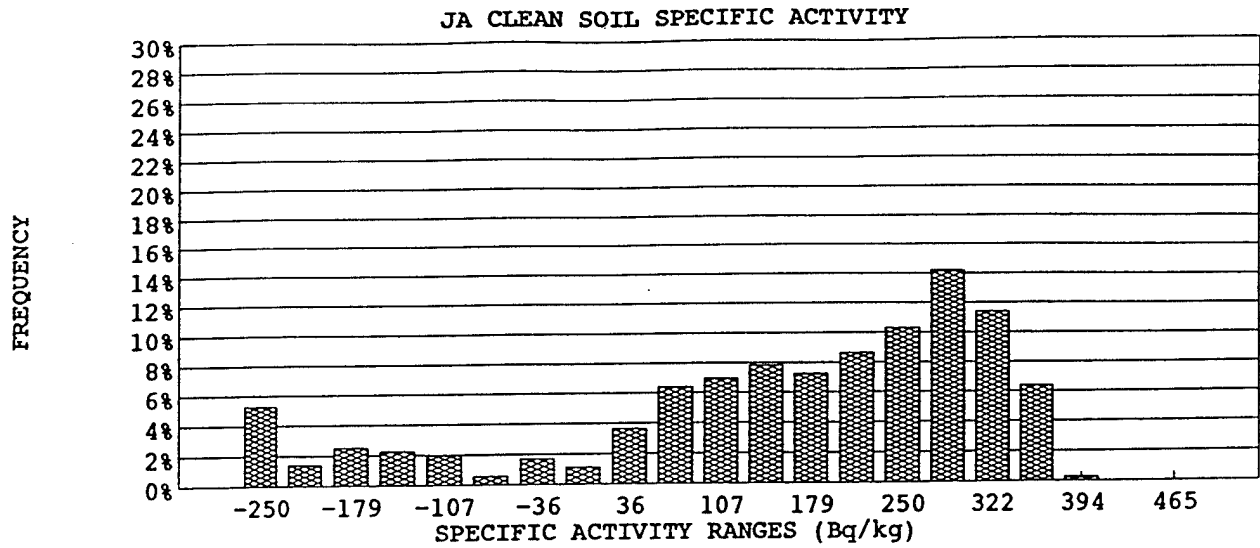
	SORTER 1	SORTER 2	SORTER 3	SORTER 4	TOTAL (sorter hours)
WORK HOURS	10.5 hr	10.5 hr	10.5 hr	10.5 hr	42.0 hr
SORTER AVAILABLE HOURS	10.2 hr	10.2 hr	0.0 hr	0.0 hr	20.3 hr
SORTER START-UP	06:10	06:10	NA	NA	
START SOIL PROCESSING	06:27	06:28	NA	NA	
TIME REQUIRED TO START-UP	0.3 hr	0.3 hr	0.0 hr	0.0 hr	0.6 hr
SORTER SHUT-DOWN	16:20	16:20	NA	NA	
END SOIL PROCESSING	16:04	16:04	NA	NA	
TIME REQUIRED TO SHUT DOWN	0.3 hr	0.3 hr	0.0 hr	0.0 hr	0.5 hr
ACTUAL PROCESS HOURS	8.7 hr	8.8 hr	0.0 hr	0.0 hr	17.4 hr
DOWN-TIME	1.5 hr	1.4 hr	0.0 hr	0.0 hr	2.9 hr
SYSTEM PAUSE	1.0 hr	0.9 hr	0.0 hr	0.0 hr	2.0 hr
SORTER NONAVAILABLE TIME	0.3 hr	0.3 hr	10.0 hr	10.0 hr	20.7 hr
AUTHORIZED DELAY TIME	0.0 hr	0.0 hr	10.0 hr	10.0 hr	20.0 hr
PLANT PERFORMANCE					85.8%
PRODUCTIVITY					41.5%

PRODUCTIVITY

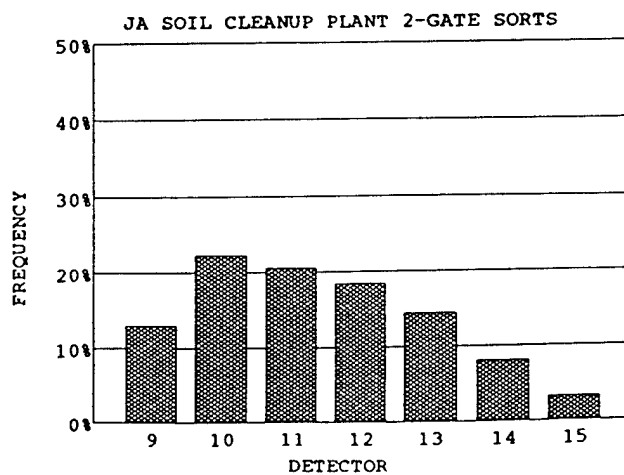
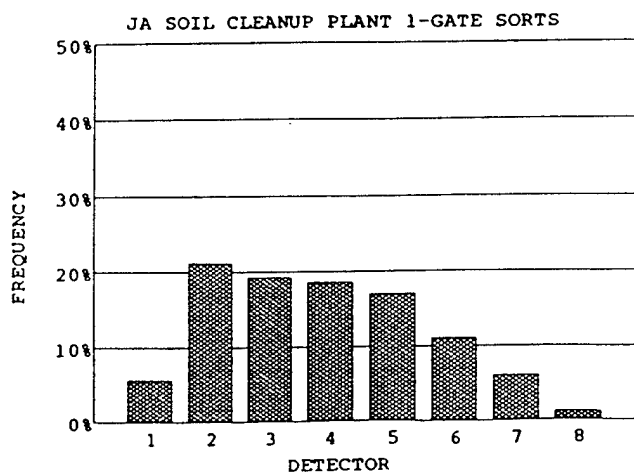
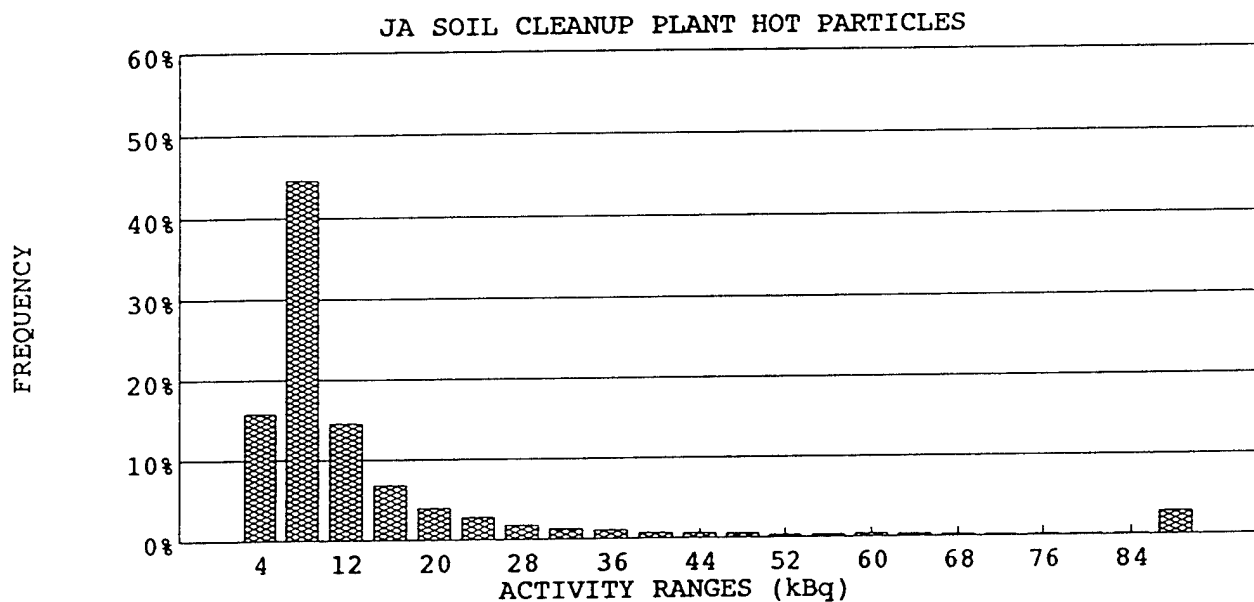
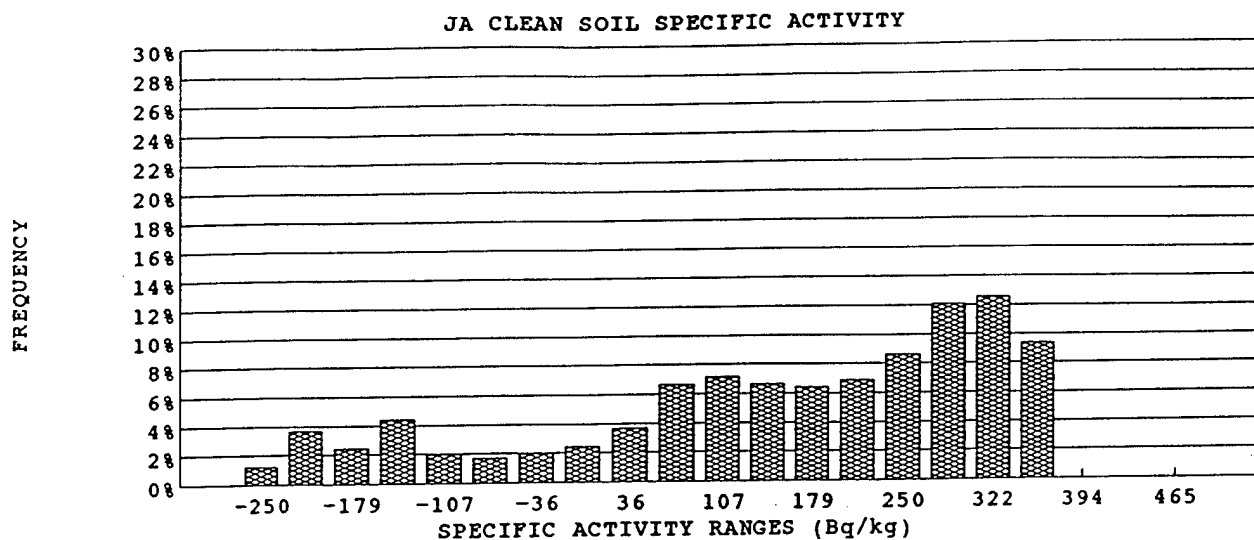
Date	06-Apr-94	Excused Delays for day (sorter-hrs)	20 hr
Contract day (from 6 Sep)	171	Excused delays for contract (sorter-hrs)	2,822 hr
Current Contract week	29	Excused delay days (plant-days)	71 days
		Excused delay months (plant-month)	2.71 months
Soil production for Day	176 MT		
Cumulative Soil Production for Week	367 MT	Percent of contract completed	38.9%
Total Soil production for contract		Tons Ahead or Behind Schedule	1,739 MT
Since 6 Sep 93	37,347 MT	Days ahead or behind schedule	5 days
Since 6 Aug 93	38,938 MT		
Total Soil production for project	65,225 MT		

MT = metric tons

SORTER 1				06-Apr-94					
SORTER SOIL DENSITY		1.20 tons/m ³		BACKGROUND		0.66 ± 0.04 c/s			
SOIL		CONTAMINATED		CLEAN		TOTAL			
MASS TOTAL		68.0 tons		19.4 tons		87.4 tons			
MAXIMUM/SORT		58.1 kg		55.9 kg					
MINIMUM/SORT		0.7 kg		41.2 kg					
VOLUME IN-GROUND		53.9 yd ³		15.4 yd ³		69.3 yd ³			
WEIGHT RECOVERY (CLEAN/(HOT+CLEAN))		22.2%							
ACTIVITY		PARTICLE		HOT		DISPERSED + PARTICLE CLEAN			
TOTAL		176,569 kBq		121,595 kBq		2,788 kBq			
MAXIMUM/SORT		12,333 kBq		9,712 kBq		20 kBq			
MINIMUM/SORT		2 kBq		(34,086)Bq		-21 kBq			
SPECIFIC ACTIVITY				1,788 Bq/kg		144 Bq/kg			
SORTS									
20-SEC PROCESS PERIODS				1,563		UNEXP PAUSE			
ALL 80 ELEMENTS SORT (MD>0&MND=0)				1,206		TIME TIME			
NONE (AD=0 & MD=0 & MND>0)				145		10:21 08:17			
SOME (AD>0&0<MD<MNDmax&MND<MNDmax)				212		12:36 09:10			
UNEXPLAINED RECORDS				0		12:37 10:02			
0<AD<1kBq & MD>0				0		12:38 10:03			
AD=0 & MD>0				1		13:40 10:41			
AD<0 & MD >0				7		13:40 10:43			
2-SEC COUNT PERIODS				15,630		14:30 11:16			
2-SEC RECORDS WITH SORTS				6,659		15:24 12:31			
2-SEC RECORDS WITHOUT SORTS				8,971		12:37			
TOTAL PROCESS RECORDS (2-s SORTS and 20-s PERIODS)				8,222		12:57			
NONPROCESSING RECORDS (Test, calibration, etc)				2		13:00			
2-SEC SORT DETECTORS						13:20			
1 DET		4,516	67.8%	5 DET	33	0.5%	13:22		
2 DET		1,604	24.1%	6 DET	0	0.0%	13:34		
3 DET		397	6.0%	7 DET	3	0.0%	14:27		
4 DET		109	1.6%	8 DET	0	0.0%	15:21		
AVERAGE TIME BETWEEN 2-SEC SORTS				6.9 sec					
FREQUENCY DISTRIBUTIONS									
1-GATE SORTS			ACT_ND	NUM	SPEC_A	FREQ%	ACT_P	NUM	FREQ%
DET	SORTS	FREQ%	(Bq)	(#)	(Bq/kg)		(kBq)	(#)	
1	90	2.7%	-14000	19	-250	5.3%	4	539	8.1%
2	472	13.9%	-12000	5	-215	1.4%	8	3,161	47.5%
3	659	19.4%	-10000	9	-179	2.5%	12	1,066	16.0%
4	659	19.4%	-8000	8	-143	2.2%	16	537	8.1%
5	670	19.7%	-6000	7	-107	1.9%	20	325	4.9%
6	430	12.7%	-4000	2	-72	0.6%	24	215	3.2%
7	349	10.3%	-2000	6	-36	1.7%	28	126	1.9%
8	64	1.9%	0	4	0	1.1%	32	81	1.2%
TOTAL	3,393		2000	13	36	3.6%	36	82	1.2%
2-GATE SORTS			4000	23	72	6.4%	40	60	0.9%
DET	SORTS	FREQ%	6000	25	107	7.0%	44	47	0.7%
9	244	7.5%	8000	28	143	7.8%	48	37	0.6%
10	549	16.8%	10000	26	179	7.2%	52	39	0.6%
11	652	20.0%	12000	31	215	8.6%	56	32	0.5%
12	703	21.5%	14000	37	250	10.3%	60	31	0.5%
13	587	18.0%	16000	51	286	14.2%	64	18	0.3%
14	349	10.7%	18000	41	322	11.4%	68	15	0.2%
15	182	5.6%	20000	23	358	6.4%	72	14	0.2%
TOTAL	3,266		22000	1	394	0.3%	76	17	0.3%
			24000	0	429	0.0%	80	13	0.2%
			26000	0	465	0.0%	84	9	0.1%
			>28000	0	0	0.0%	>84	195	2.9%
			TOTAL	359			TOTAL	6,659	
EVENT TYPES		HPE	6,126	MPE	14,669	DISE	76,527		



SORTER 2				06-Apr-94					
SORTER SOIL DENSITY		1.20 tons/m³		BACKGROUND		0.77 ± 0.04 c/s			
SOIL		CONTAMINATED		CLEAN		TOTAL			
MASS TOTAL		66.4 tons		21.7 tons		88.1 tons			
MAXIMUM/SORT		58.1 kg		55.9 kg					
MINIMUM/SORT		0.7 kg		44.0 kg					
VOLUME IN-GROUND		52.7 yd³		17.2 yd³		69.9 yd³			
WEIGHT RECOVERY (CLEAN/(HOT+CLEAN))		24.6%							
ACTIVITY				DISPERSED + PARTICLE					
				PARTICLE		HOT		CLEAN	
TOTAL				142,457 kBq		104,394 kBq		3,113 kBq	
MAXIMUM/SORT				3,367 kBq		2,568 kBq		20 kBq	
MINIMUM/SORT				2 kBq		(20,795)Bq		-19 kBq	
SPECIFIC ACTIVITY						1,571 Bq/kg		144 Bq/kg	
SORTS									
20-SEC PROCESS PERIODS				1,576				UNEXP PAUSE	
ALL 80 ELEMENTS SORT (MD>0&MND=0)				1,175				TIME TIME	
NONE (AD=0 & MD=0 & MND>0)				148				10:21 08:17	
SOME (AD>0&0<MD<MNDmax&MND<MNDmax)				252				12:36 09:09	
UNEXPLAINED RECORDS				1				12:37 10:02	
0<AD<1kBq & MD>0				0				12:38 10:43	
AD=0 & MD>0				0				13:40 11:17	
AD<0 & MD >0				11				13:40 12:32	
2-SEC COUNT PERIODS				15,760				13:42 12:37	
2-SEC RECORDS WITH SORTS				6,754				14:30 13:34	
2-SEC RECORDS WITHOUT SORTS				9,006				15:24 13:41	
TOTAL PROCESS RECORDS (2-s SORTS and 20-s PERIODS)				8,330				15:25 14:27	
NONPROCESSING RECORDS (Test, calibration, etc)				5				16:03 15:21	
2-SEC SORT DETECTORS								15:25	
1 DET		4,597 68.1%		5 DET		31 0.5%			
2 DET		1,600 23.7%		6 DET		0 0.0%			
3 DET		424 6.3%		7 DET		2 0.0%			
4 DET		102 1.5%		8 DET		1 0.0%			
AVERAGE TIME BETWEEN 2-SEC SORTS				6.8 sec					
FREQUENCY DISTRIBUTIONS									
1-GATE SORTS			ACT_ND	NUM	SPEC_A	FREQ%	ACT_P	NUM	FREQ%
DET	SORTS	FREQ%	(Bq)	(#)	(Bq/kg)		(kBq)	(#)	
1	192	5.6%	-14000	5	-250	1.2%	4	1,068	15.8%
2	724	21.2%	-12000	15	-215	3.7%	8	3,009	44.6%
3	658	19.3%	-10000	10	-179	2.5%	12	983	14.6%
4	635	18.6%	-8000	18	-143	4.4%	16	459	6.8%
5	580	17.0%	-6000	8	-107	2.0%	20	270	4.0%
6	376	11.0%	-4000	7	-72	1.7%	24	192	2.8%
7	206	6.0%	-2000	8	-36	2.0%	28	122	1.8%
8	40	1.2%	0	10	0	2.5%	32	88	1.3%
TOTAL	3,411		2000	15	36	3.7%	36	73	1.1%
			4000	27	72	6.7%	40	50	0.7%
			6000	29	107	7.1%	44	41	0.6%
2-GATE SORTS			8000	27	143	6.7%	48	38	0.6%
DET	SORTS	FREQ%							
9	435	13.0%	10000	26	179	6.4%	52	23	0.3%
10	746	22.3%	12000	28	215	6.9%	56	22	0.3%
11	688	20.6%	14000	35	250	8.6%	60	29	0.4%
12	616	18.4%	16000	49	286	12.1%	64	23	0.3%
13	481	14.4%	18000	51	322	12.6%	68	18	0.3%
14	269	8.0%	20000	38	358	9.4%	72	15	0.2%
15	108	3.2%	22000	0	394	0.0%	76	12	0.2%
TOTAL	3,343		24000	0	429	0.0%	80	11	0.2%
			26000	0	465	0.0%	84	11	0.2%
			>28000	0	0	0.0%	>84	197	2.9%
			TOTAL	406			TOTAL	6,754	
EVENT TYPES		HPE	6,350	MPE	15,051	DISE	73,683		



WORK HISTORY - JA SOIL CLEANUP PLANT

07-Apr-94

WORK DAY START	06:00 AM	WORK DAY END	16:30 PM
LUNCH START	11:00 AM	TIME LOST DURING LUNCH	0.0 HR

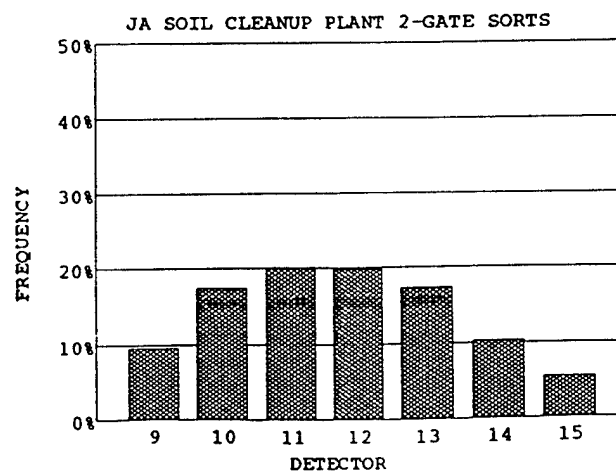
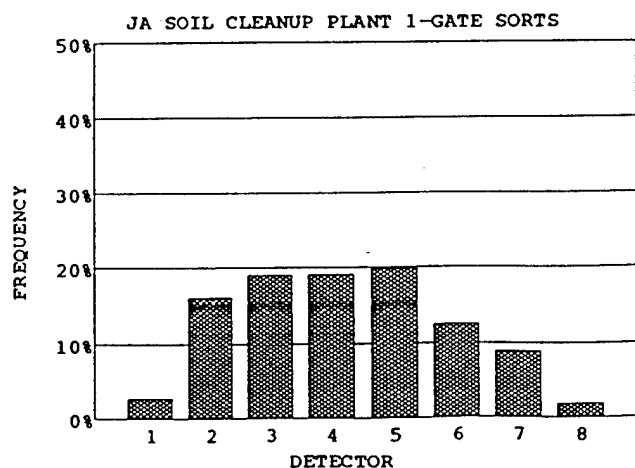
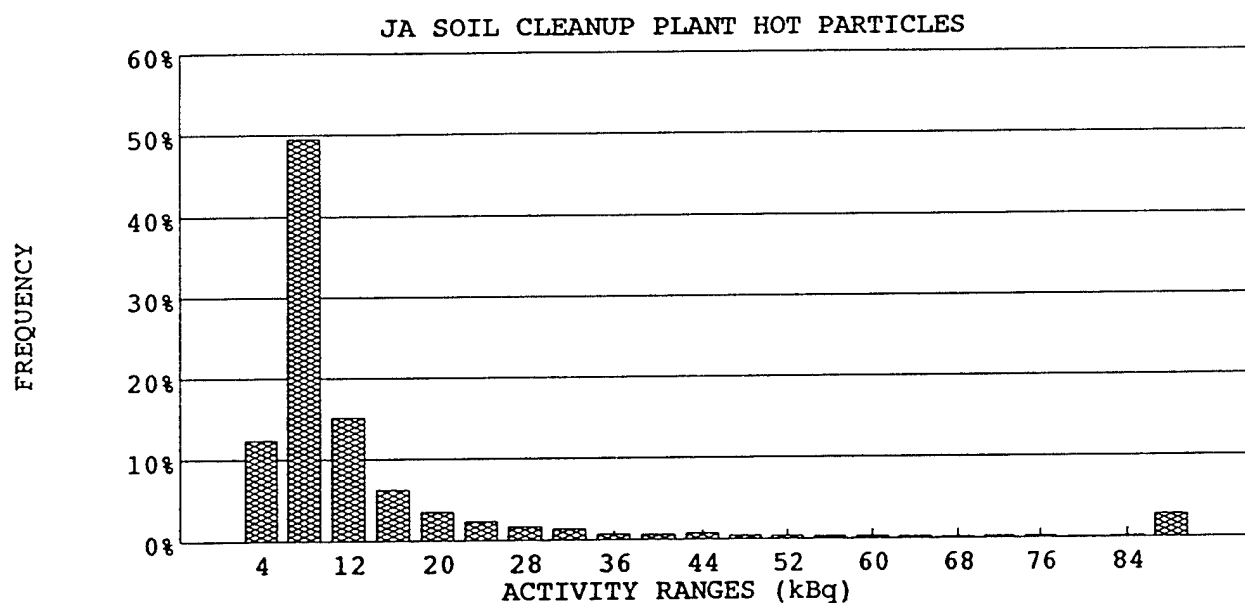
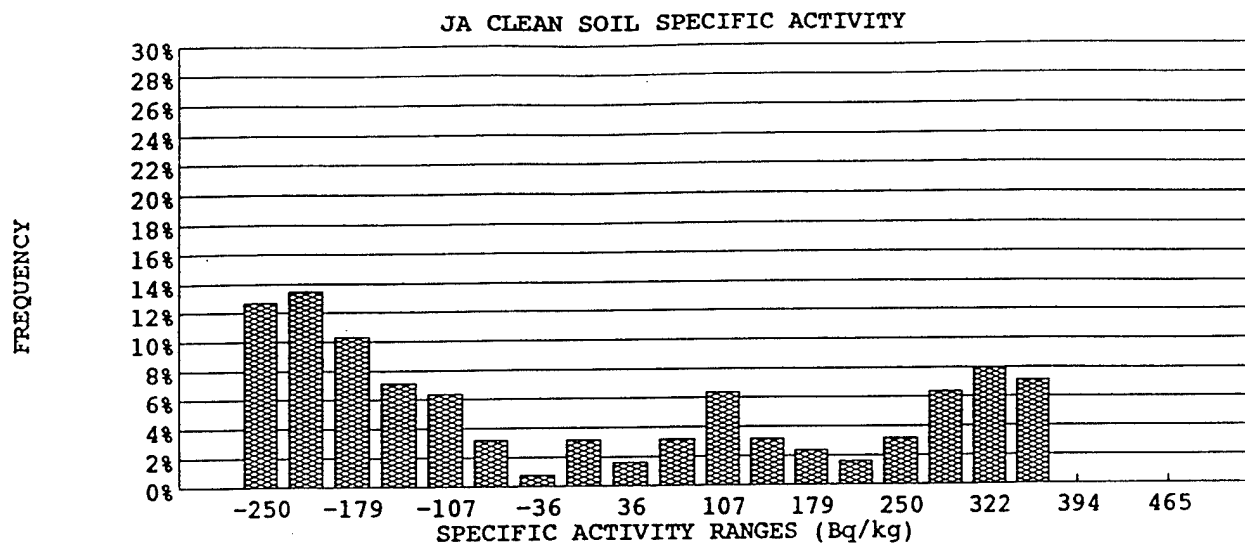
	SORTER 1	SORTER 2	SORTER 3	SORTER 4	TOTAL (sorter hours)
WORK HOURS	10.5 hr	10.5 hr	10.5 hr	10.5 hr	42.0 hr
SORTER AVAILABLE HOURS	10.0 hr	10.0 hr	0.0 hr	0.0 hr	20.0 hr
SORTER START-UP	06:10	06:10	NA	NA	
START SOIL PROCESSING	06:17	06:17	NA	NA	
TIME REQUIRED TO START-UP	0.1 hr	0.1 hr	0.0 hr	0.0 hr	0.2 hr
SORTER SHUT-DOWN	16:10	16:10	NA	NA	
END SOIL PROCESSING	15:51	15:50	NA	NA	
TIME REQUIRED TO SHUT DOWN	0.3 hr	0.3 hr	0.0 hr	0.0 hr	0.6 hr
ACTUAL PROCESS HOURS	8.9 hr	8.9 hr	0.0 hr	0.0 hr	17.7 hr
DOWN-TIME	1.1 hr	1.1 hr	0.0 hr	0.0 hr	2.3 hr
SYSTEM PAUSE	0.8 hr	0.8 hr	0.0 hr	0.0 hr	1.6 hr
SORTER NONAVAILABLE TIME	0.5 hr	0.5 hr	10.0 hr	10.0 hr	21.0 hr
AUTHORIZED DELAY TIME	0.0 hr	0.0 hr	10.0 hr	10.0 hr	20.0 hr
PLANT PERFORMANCE					88.7%
PRODUCTIVITY					42.2%

PRODUCTIVITY

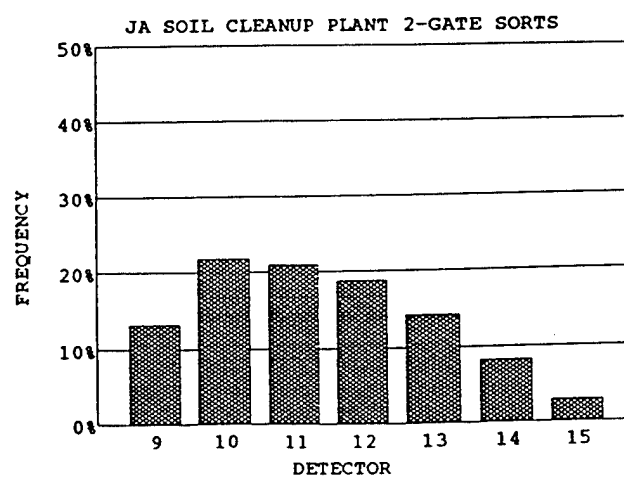
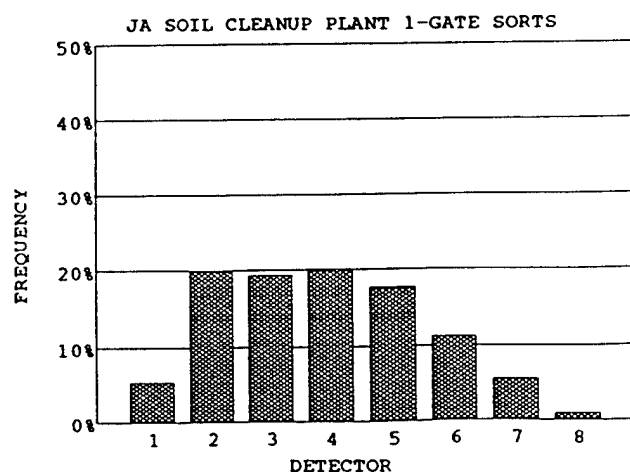
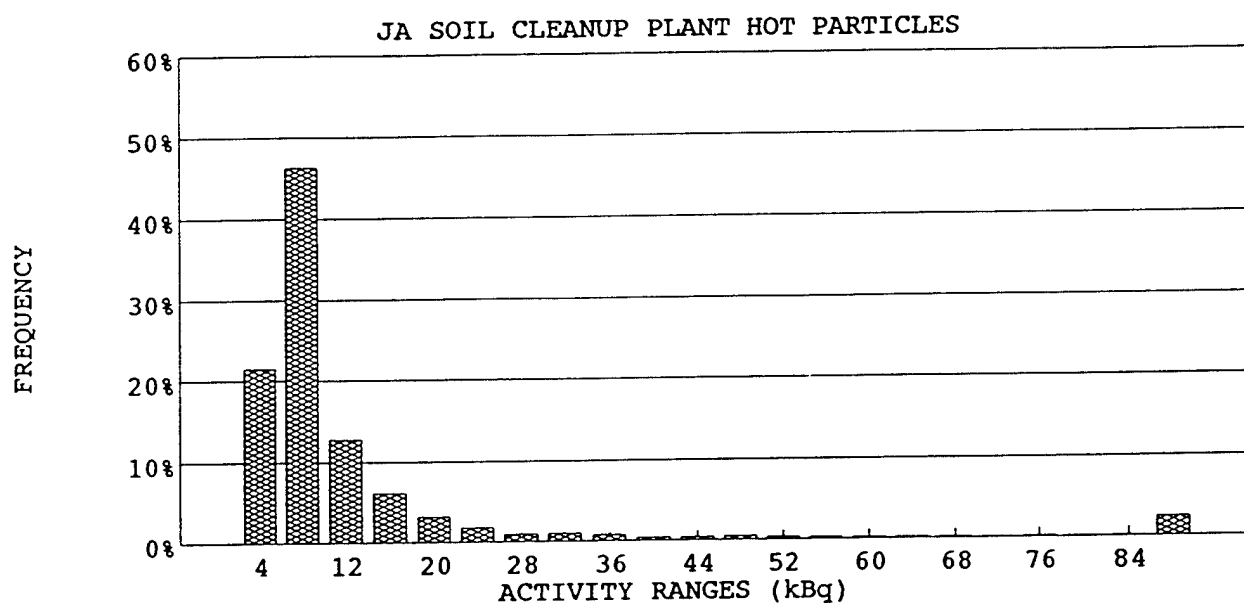
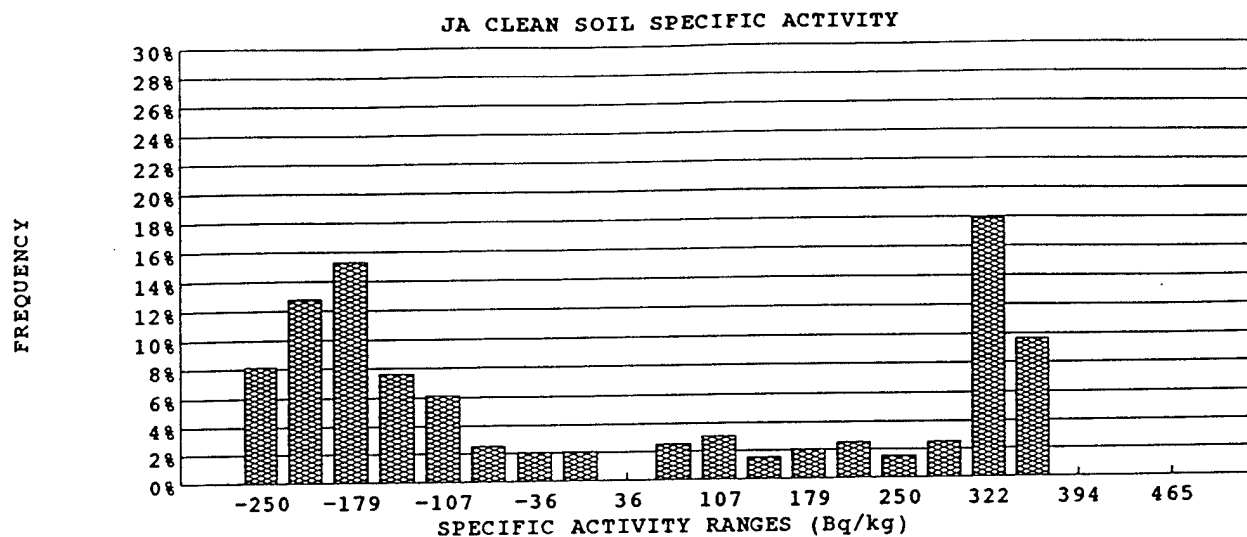
Date	07-Apr-94	Excused Delays for day (sorter-hrs)	20 hr
Contract day (from 6 Sep)	172	Excused delays for contract (sorter-hrs)	2,842 hr
Current Contract week	29	Excused delay days (plant-days)	71 days
		Excused delay months (plant-month)	2.73 months
Soil production for Day	178 MT		
Cumulative Soil Production for Week	546 MT	Percent of contract completed	39.1%
Total Soil production for contract		Tons Ahead or Behind Schedule	1,760 MT
Since 6 Sep 93	37,525 MT	Days ahead or behind schedule	6 days
Since 6 Aug 93	39,116 MT		
Total Soil production for project	65,403 MT		

MT = metric tons

SORTER 1				07-Apr-94					
SORTER SOIL DENSITY		1.20 tons/m ³		BACKGROUND		0.67 ± 0.05 c/s			
SOIL		CONTAMINATED		CLEAN		TOTAL			
MASS TOTAL		82.5 tons		6.8 tons		89.2 tons			
MAXIMUM/SORT		58.1 kg		55.9 kg					
MINIMUM/SORT		0.7 kg		22.4 kg					
VOLUME IN-GROUND		65.4 yd ³		5.4 yd ³		70.7 yd ³			
WEIGHT RECOVERY (CLEAN/(HOT+CLEAN))		7.6%							
ACTIVITY		PARTICLE		DISPERSED + PARTICLE					
				HOT	CLEAN				
TOTAL		186,250 kBq		156,028 kBq	(154)kBq				
MAXIMUM/SORT		10,745 kBq		6,521 kBq	20 kBq				
MINIMUM/SORT		2 kBq		(25,426)Bq	-23 kBq				
SPECIFIC ACTIVITY				1,892 Bq/kg	(23)Bq/kg				
SORTS									
20-SEC PROCESS PERIODS				1,596	UNEXP	PAUSE			
ALL 80 ELEMENTS SORT (MD>0&MND=0)				1,470	TIME	TIME			
NONE (AD=0 & MD=0 & MND>0)				71	07:06	07:01			
SOME (AD>0&0<MD<MNDmax&MND<MNDmax)				55	07:55	07:03			
UNEXPLAINED RECORDS				0	08:39	07:06			
0<AD<1kBq & MD>0				0	08:40	07:52			
AD=0 & MD>0				2	09:25	08:37			
AD<0 & MD >0				10	10:03	08:40			
2-SEC COUNT PERIODS				15,960	10:05	09:23			
2-SEC RECORDS WITH SORTS				7,812	10:51	09:59			
2-SEC RECORDS WITHOUT SORTS				8,148	10:52	10:03			
TOTAL PROCESS RECORDS (2-s SORTS and 20-s PERIODS)				9,408	12:34	10:49			
NONPROCESSING RECORDS (Test, calibration, etc)				0	12:35	10:51			
2-SEC SORT DETECTORS					13:56	11:32			
1 DET	5,381	68.9%	5 DET	41	0.5%	12:28			
2 DET	1,807	23.1%	6 DET	0	0.0%	12:34			
3 DET	460	5.9%	7 DET	2	0.0%	13:52			
4 DET	123	1.6%	8 DET	0	0.0%	15:12			
AVERAGE TIME BETWEEN 2-SEC SORTS				6.2 sec					
FREQUENCY DISTRIBUTIONS									
1-GATE SORTS			ACT_ND	NUM	SPEC_A	FREQ%	ACT_P	NUM	FREQ%
DET	SORTS	FREQ%	(Bq)	(#)	(Bq/kg)		(kBq)	(#)	
1	106	2.7%	-14000	16	-250	12.7%	4	965	12.4%
2	641	16.1%	-12000	17	-215	13.5%	8	3,865	49.5%
3	757	19.0%	-10000	13	-179	10.3%	12	1,182	15.1%
4	760	19.1%	-8000	9	-143	7.1%	16	490	6.3%
5	788	19.8%	-6000	8	-107	6.3%	20	277	3.5%
6	503	12.6%	-4000	4	-72	3.2%	24	186	2.4%
7	355	8.9%	-2000	1	-36	0.8%	28	133	1.7%
8	74	1.9%	0	4	0	3.2%	32	108	1.4%
TOTAL	3,984		2000	2	36	1.6%	36	57	0.7%
			4000	4	72	3.2%	40	51	0.7%
2-GATE SORTS			6000	8	107	6.3%	44	63	0.8%
DET	SORTS	FREQ%	8000	4	143	3.2%	48	39	0.5%
9	365	9.5%	10000	3	179	2.4%	52	31	0.4%
10	667	17.4%	12000	2	215	1.6%	56	25	0.3%
11	770	20.1%	14000	4	250	3.2%	60	27	0.3%
12	758	19.8%	16000	8	286	6.3%	64	21	0.3%
13	664	17.3%	18000	10	322	7.9%	68	14	0.2%
14	394	10.3%	20000	9	358	7.1%	72	20	0.3%
15	210	5.5%	22000	0	394	0.0%	76	19	0.2%
TOTAL	3,828		24000	0	429	0.0%	80	6	0.1%
			26000	0	465	0.0%	84	10	0.1%
			>28000	0	0	0.0%	>84	223	2.9%
			TOTAL	126			TOTAL	7,812	
EVENT TYPES		HPE	7,520	MPE	26,299	DISE	84,195		



SORTER 2				07-Apr-94					
SORTER SOIL DENSITY		1.20 tons/m ³		BACKGROUND		0.76 ± 0.05 c/s			
SOIL		CONTAMINATED		CLEAN		TOTAL			
MASS TOTAL		78.9 tons		10.3 tons		89.2 tons			
MAXIMUM/SORT		58.1 kg		55.9 kg					
MINIMUM/SORT		0.7 kg		42.6 kg					
VOLUME IN-GROUND		62.5 yd ³		8.2 yd ³		70.7 yd ³			
WEIGHT RECOVERY (CLEAN/(HOT+CLEAN))		11.6%							
ACTIVITY		PARTICLE		DISPERSED + PARTICLE					
				HOT		CLEAN			
TOTAL		133,606 kBq		126,230 kBq		117 kBq			
MAXIMUM/SORT		5,504 kBq		2,351 kBq		20 kBq			
MINIMUM/SORT		2 kBq		(27,581)Bq		-17 kBq			
SPECIFIC ACTIVITY				1,600 Bq/kg		11 Bq/kg			
SORTS									
20-SEC PROCESS PERIODS				1,596		UNEXP PAUSE			
ALL 80 ELEMENTS SORT (MD>0&MND=0)				1,406		TIME TIME			
NONE (AD=0 & MD=0 & MND>0)				113		07:06 07:03			
SOME (AD>0&0<MD<MNDmax&MND<MNDmax)				77		07:08 07:07			
UNEXPLAINED RECORDS				0		07:55 07:52			
0<AD<1kBq & MD>0				0		08:39 08:37			
AD=0 & MD>0				1		08:40 09:23			
AD<0 & MD >0				10		09:25 09:56			
2-SEC COUNT PERIODS				15,960		10:03 10:04			
2-SEC RECORDS WITH SORTS				7,482		10:05 10:48			
2-SEC RECORDS WITHOUT SORTS				8,478		10:51 11:32			
TOTAL PROCESS RECORDS (2-s SORTS and 20-s PERIODS)				9,078		12:34 12:28			
NONPROCESSING RECORDS (Test, calibration, etc)				6		12:35 13:53			
2-SEC SORT DETECTORS						13:56 15:12			
1 DET		5,166	69.0%	5 DET	27	0.4%			
2 DET		1,769	23.6%	6 DET	0	0.0%			
3 DET		423	5.7%	7 DET	0	0.0%			
4 DET		97	1.3%	8 DET	0	0.0%			
AVERAGE TIME BETWEEN 2-SEC SORTS				6.5 sec					
FREQUENCY DISTRIBUTIONS									
1-GATE SORTS			ACT_ND	NUM	SPEC_A	FREQ%	ACT_P	NUM	FREQ%
DET	SORTS	FREQ%	(Bq)	(#)	(Bq/kg)		(kBq)	(#)	
1	201	5.4%	-14000	16	-250	8.2%	4	1,607	21.5%
2	740	19.9%	-12000	25	-215	12.8%	8	3,466	46.3%
3	720	19.3%	-10000	30	-179	15.3%	12	959	12.8%
4	750	20.1%	-8000	15	-143	7.7%	16	458	6.1%
5	660	17.7%	-6000	12	-107	6.1%	20	238	3.2%
6	417	11.2%	-4000	5	-72	2.6%	24	136	1.8%
7	205	5.5%	-2000	4	-36	2.0%	28	73	1.0%
8	33	0.9%	0	4	0	2.0%	32	78	1.0%
TOTAL	3,726		2000	0	36	0.0%	36	59	0.8%
			4000	5	72	2.6%	40	33	0.4%
			6000	6	107	3.1%	44	32	0.4%
2-GATE SORTS			8000	3	143	1.5%	48	36	0.5%
DET	SORTS	FREQ%	10000	4	179	2.0%	52	26	0.3%
9	497	13.2%	12000	5	215	2.6%	56	20	0.3%
10	818	21.8%	14000	3	250	1.5%	60	14	0.2%
11	787	21.0%	16000	5	286	2.6%	64	14	0.2%
12	704	18.7%	18000	35	322	17.9%	68	16	0.2%
13	535	14.2%	20000	19	358	9.7%	72	9	0.1%
14	309	8.2%	22000	0	394	0.0%	76	12	0.2%
15	106	2.8%	24000	0	429	0.0%	80	8	0.1%
TOTAL	3,756		26000	0	465	0.0%	84	10	0.1%
			>28000	0	0	0.0%	>84	178	2.4%
			TOTAL	196			TOTAL	7,482	
EVENT TYPES		HPE	7,211	MPE	24,114	DISE	81,587		



WORK HISTORY - JA SOIL CLEANUP PLANT

08-Apr-94

WORK DAY START	06:00 AM	WORK DAY END	16:30 PM
LUNCH START	11:00 AM	TIME LOST DURING LUNCH	0.0 HR

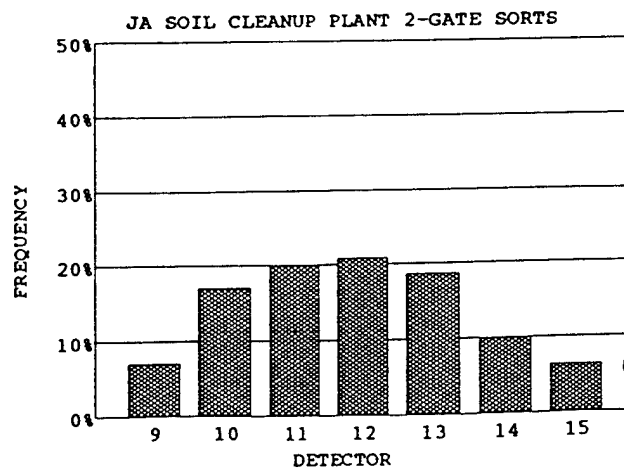
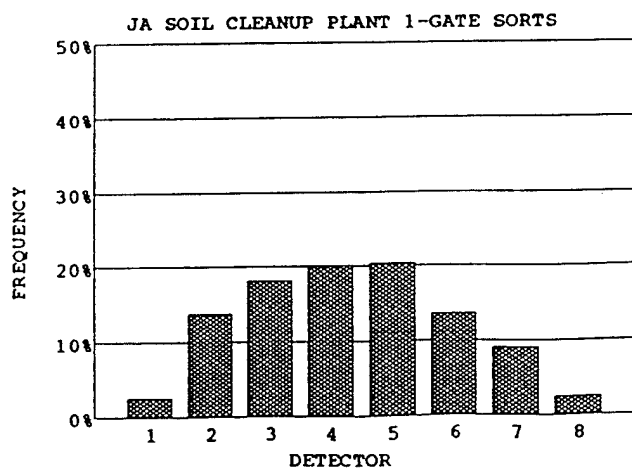
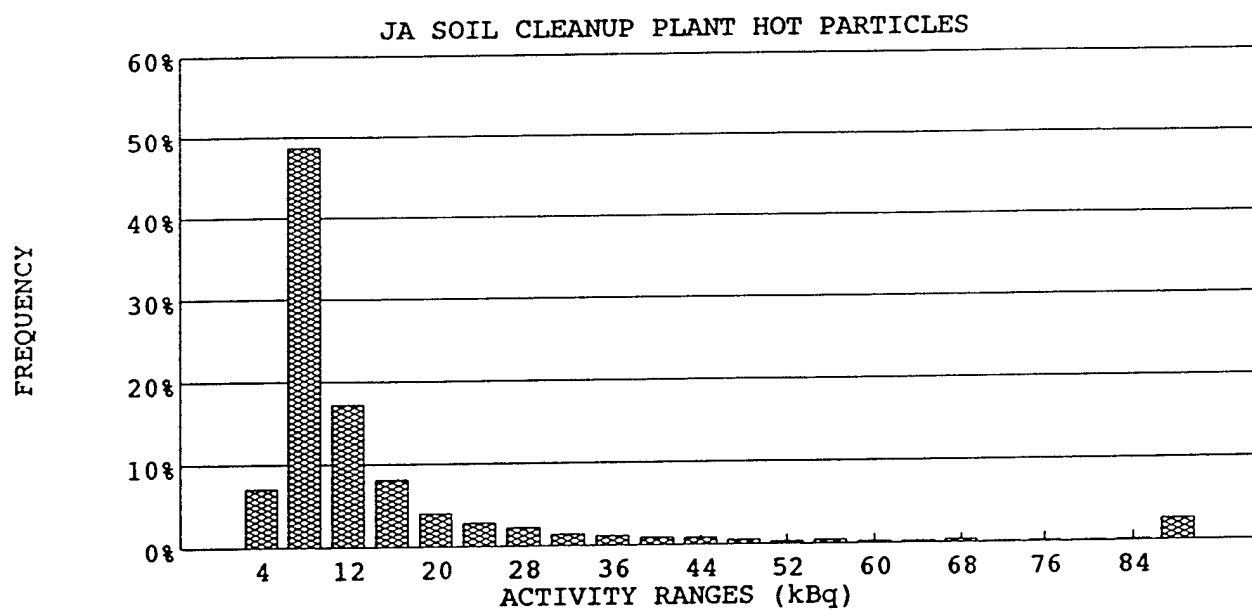
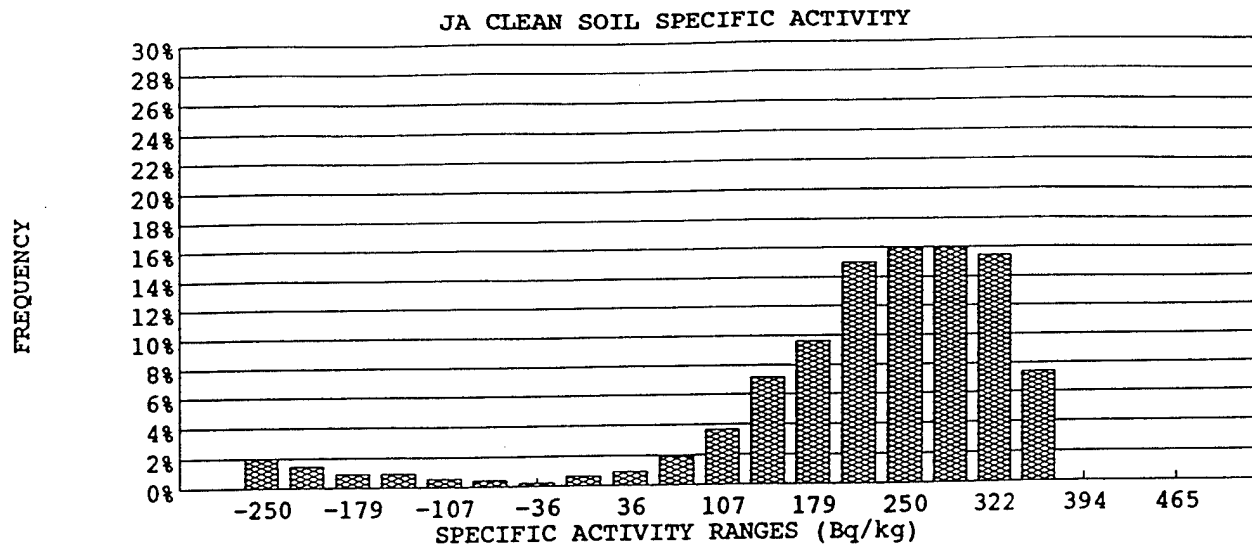
	SORTER 1	SORTER 2	SORTER 3	SORTER 4	TOTAL (sorter hours)
WORK HOURS	10.5 hr	10.5 hr	10.5 hr	10.5 hr	42.0 hr
SORTER AVAILABLE HOURS	10.3 hr	10.3 hr	0.0 hr	0.0 hr	20.7 hr
SORTER START-UP	06:00	06:00	NA	NA	
START SOIL PROCESSING	06:10	06:38	NA	NA	
TIME REQUIRED TO START-UP	0.2 hr	0.6 hr	0.0 hr	0.0 hr	0.8 hr
SORTER SHUT-DOWN	16:20	16:20	NA	NA	
END SOIL PROCESSING	16:03	16:04	NA	NA	
TIME REQUIRED TO SHUT DOWN	0.3 hr	0.3 hr	0.0 hr	0.0 hr	0.5 hr
ACTUAL PROCESS HOURS	9.1 hr	9.0 hr	0.0 hr	0.0 hr	18.0 hr
DOWN-TIME	1.3 hr	1.3 hr	0.0 hr	0.0 hr	2.6 hr
SYSTEM PAUSE	0.9 hr	0.5 hr	0.0 hr	0.0 hr	1.4 hr
SORTER NONAVAILABLE TIME	0.2 hr	0.2 hr	10.0 hr	10.0 hr	20.3 hr
AUTHORIZED DELAY TIME	0.0 hr	0.0 hr	10.0 hr	10.0 hr	20.0 hr
PLANT PERFORMANCE					87.3%
PRODUCTIVITY					43.0%

PRODUCTIVITY

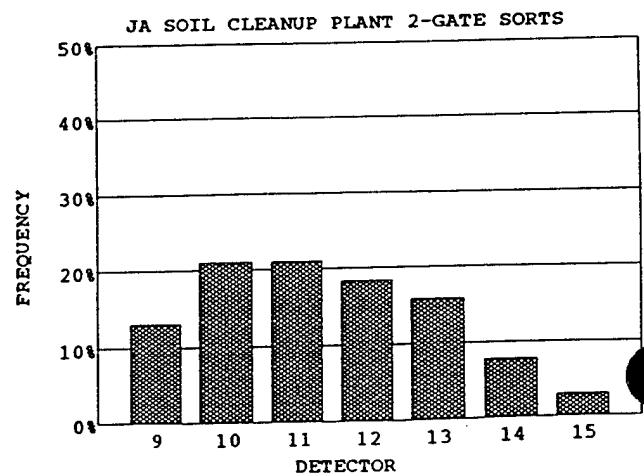
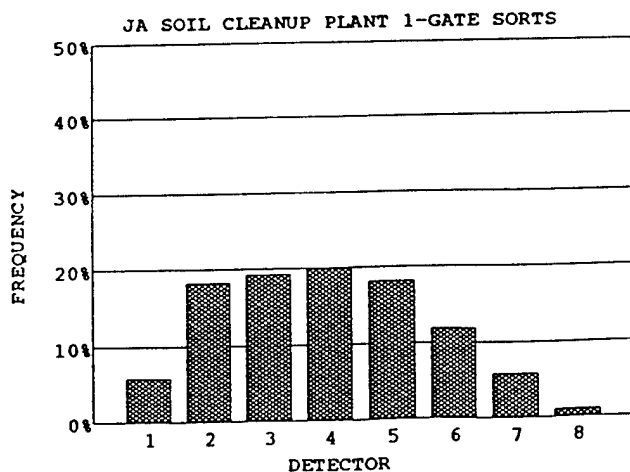
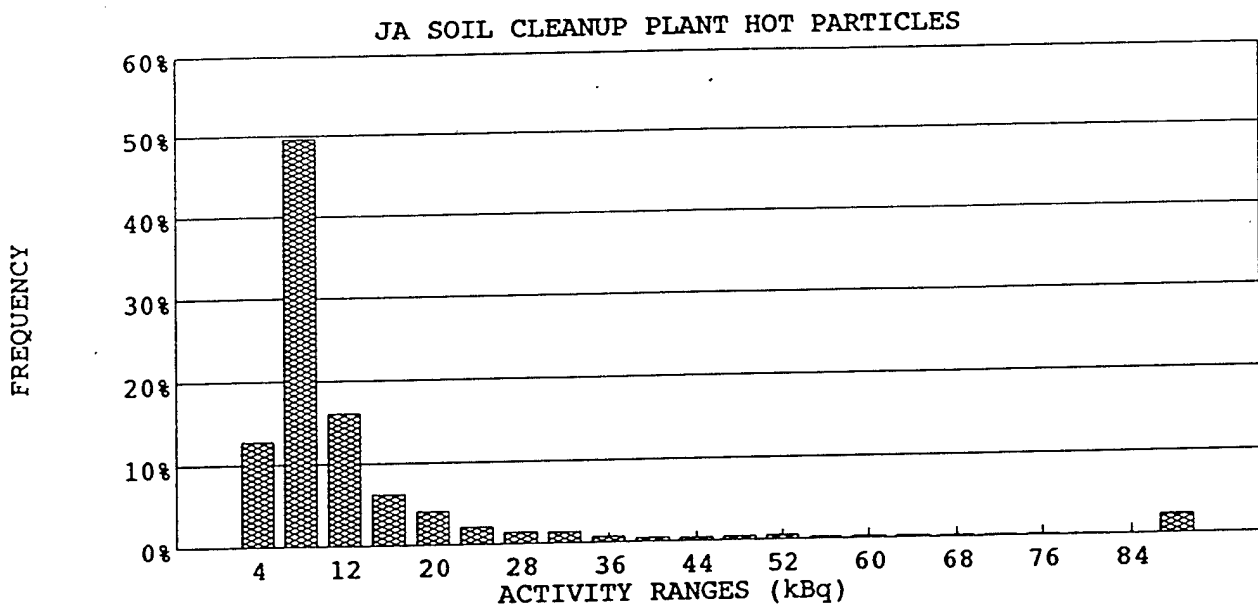
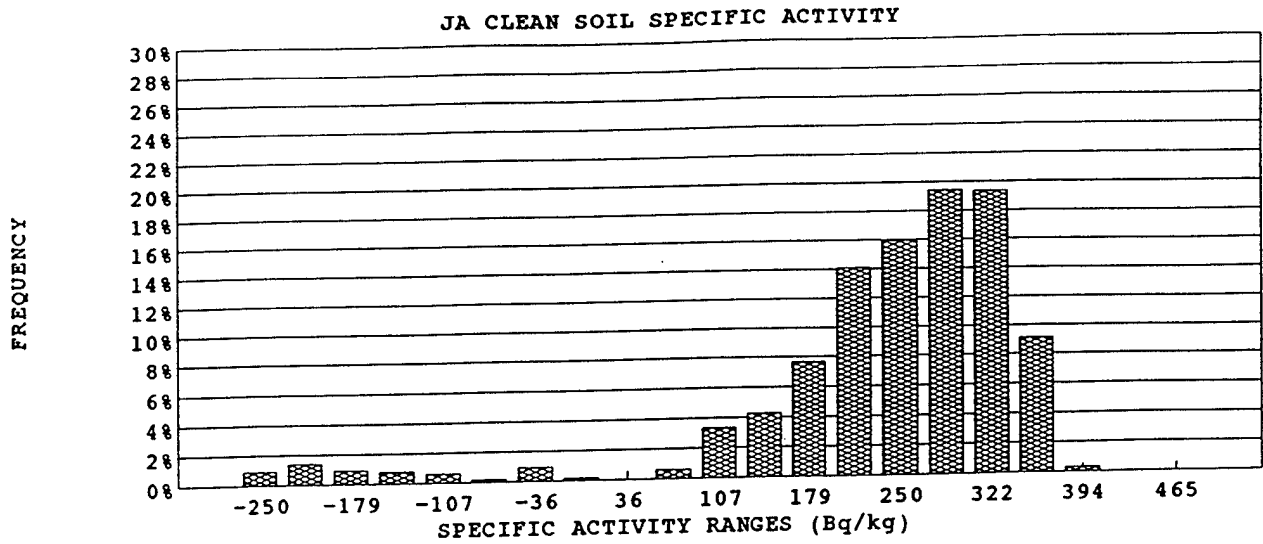
Date	08-Apr-94	Excused Delays for day (sorter-hrs)	20 hr
Contract day (from 6 Sep)	173	Excused delays for contract (sorter-hrs)	2,862 hr
Current Contract week	29	Excused delay days (plant-days)	72 days
		Excused delay months (plant-month)	2.75 months
Soil production for Day	182 MT		
Cumulative Soil Production for Week	727 MT	Percent of contract completed	39.3%
Total Soil production for contract		Tons Ahead or Behind Schedule	1,783 MT
Since 6 Sep 93	37,707 MT	Days ahead or behind schedule	6 days
Since 6 Aug 93	39,298 MT		
Total Soil production for project	65,585 MT		

MT = metric tons

SORTER 1				08-Apr-94					
SORTER SOIL DENSITY			1.20 tons/m ³	BACKGROUND		0.70 ±	0.04 c/s		
SOIL		CONTAMINATED		CLEAN		TOTAL			
MASS TOTAL		42.8 tons		48.3 tons		91.1 tons			
MAXIMUM/SORT		58.1 kg		55.9 kg					
MINIMUM/SORT		0.7 kg		41.2 kg					
VOLUME IN-GROUND		33.9 yd ³		38.3 yd ³		72.2 yd ³			
WEIGHT RECOVERY (CLEAN/(HOT+CLEAN))		53.0%							
ACTIVITY		PARTICLE		DISPERSED + PARTICLE					
				HOT	CLEAN				
TOTAL		67,844 kBq		51,714 kBq	9,961 kBq				
MAXIMUM/SORT		2,032 kBq		1,466 kBq	20 kBq				
MINIMUM/SORT		2 kBq		(31,923)Bq	-35 kBq				
SPECIFIC ACTIVITY				1,209 Bq/kg	206 Bq/kg				
SORTS									
20-SEC PROCESS PERIODS				1,629	UNEXP	PAUSE			
ALL 80 ELEMENTS SORT (MD>0&MND=0)				727	TIME	TIME			
NONE (AD=0 & MD=0 & MND>0)				146		06:10	06:10		
SOME (AD>0&0<MD<MNDmax&MND<MNDmax)				756		07:25	07:22		
UNEXPLAINED RECORDS				0		15:36	08:22		
0<AD<1kBq & MD>0				0		15:37	09:43		
AD=0 & MD>0				0			11:15		
AD<0 & MD >0				4			15:11		
2-SEC COUNT PERIODS				16,290			15:34		
2-SEC RECORDS WITH SORTS				4,342			15:37		
2-SEC RECORDS WITHOUT SORTS				11,948					
TOTAL PROCESS RECORDS (2-s SORTS and 20-s PERIODS)				5,971					
NONPROCESSING RECORDS (Test, calibration, etc)				5					
2-SEC SORT DETECTORS									
1 DET	3,126	72.0%	5 DET	12	0.3%				
2 DET	951	21.9%	6 DET	0	0.0%				
3 DET	200	4.6%	7 DET	1	0.0%				
4 DET	53	1.2%	8 DET	0	0.0%				
AVERAGE TIME BETWEEN 2-SEC SORTS				11.4 sec					
FREQUENCY DISTRIBUTIONS									
1-GATE SORTS			ACT_ND	NUM	SPEC_A	FREQ%	ACT_P	NUM	FREQ%
DET	SORTS	FREQ%	(Bq)	(#)	(Bq/kg)		(kBq)	(#)	
1	55	2.5%	-14000	18	-250	2.0%	4	309	7.1%
2	305	13.8%	-12000	13	-215	1.4%	8	2,114	48.7%
3	401	18.2%	-10000	8	-179	0.9%	12	747	17.2%
4	445	20.1%	-8000	8	-143	0.9%	16	355	8.2%
5	449	20.3%	-6000	5	-107	0.6%	20	175	4.0%
6	300	13.6%	-4000	4	-72	0.4%	24	123	2.8%
7	201	9.1%	-2000	2	-36	0.2%	28	96	2.2%
8	53	2.4%	0	6	0	0.7%	32	61	1.4%
TOTAL	2,209		2000	8	36	0.9%	36	51	1.2%
			4000	17	72	1.9%	40	40	0.9%
2-GATE SORTS			6000	33	107	3.6%	44	38	0.9%
DET	SORTS	FREQ%	8000	65	143	7.2%	48	23	0.5%
9	151	7.1%	10000	87	179	9.6%	52	14	0.3%
10	364	17.1%	12000	136	215	15.0%	56	21	0.5%
11	427	20.0%	14000	145	250	16.0%	60	11	0.3%
12	445	20.9%	16000	145	286	16.0%	64	10	0.2%
13	398	18.7%	18000	140	322	15.4%	68	17	0.4%
14	214	10.0%	20000	67	358	7.4%	72	4	0.1%
15	134	6.3%	22000	0	394	0.0%	76	8	0.2%
TOTAL	2,133		24000	0	429	0.0%	80	4	0.1%
			26000	0	465	0.0%	84	8	0.2%
			>28000	0	0	0.0%	>84	113	2.6%
			TOTAL	907			TOTAL	4,342	
EVENT TYPES		HPE	4,259	MPE	4,804	DISE	52,160		



SORTER 2				08-Apr-94						
SORTER SOIL DENSITY			1.20 tons/m³	BACKGROUND		0.78 ±	0.04 c/s			
SOIL		CONTAMINATED		CLEAN		TOTAL				
MASS TOTAL		38.0 tons		52.6 tons		90.5 tons				
MAXIMUM/SORT		58.1 kg		55.9 kg						
MINIMUM/SORT		0.7 kg		43.3 kg						
VOLUME IN-GROUND		30.1 yd³		41.7 yd³		71.8 yd³				
WEIGHT RECOVERY (CLEAN/(HOT+CLEAN))		58.1%								
ACTIVITY				DISPERSED + PARTICLE						
		PARTICLE		HOT		CLEAN				
TOTAL		61,067 kBq		43,848 kBq		12,079 kBq				
MAXIMUM/SORT		1,475 kBq		840 kBq		21 kBq				
MINIMUM/SORT		2 kBq		(3,392)Bq		-17 kBq				
SPECIFIC ACTIVITY				1,155 Bq/kg		230 Bq/kg				
SORTS										
20-SEC PROCESS PERIODS				1,619		UNEXP PAUSE				
ALL 80 ELEMENTS SORT (MD>0&MND=0)				633		TIME TIME				
NONE (AD=0 & MD=0 & MND>0)				165		07:25 07:23				
SOME (AD>0&0<MD<MNDmax&MND<MNDmax)				821		15:36 08:22				
UNEXPLAINED RECORDS				0		15:37 09:43				
0<AD<1kBq & MD>0				0		11:15				
AD=0 & MD>0				1		15:06				
AD<0 & MD >0				2		15:08				
2-SEC COUNT PERIODS				16,190		15:09				
2-SEC RECORDS WITH SORTS				4,222		15:10				
2-SEC RECORDS WITHOUT SORTS				11,968		15:15				
TOTAL PROCESS RECORDS (2-s SORTS and 20-s PERIODS)				5,841		15:34				
NONPROCESSING RECORDS (Test, calibration, etc)				2		15:37				
2-SEC SORT DETECTORS										
1 DET		3,100	73.4%	5 DET	9	0.2%				
2 DET		887	21.0%	6 DET	0	0.0%				
3 DET		181	4.3%	7 DET	0	0.0%				
4 DET		45	1.1%	8 DET	0	0.0%				
AVERAGE TIME BETWEEN 2-SEC SORTS				11.5 sec						
FREQUENCY DISTRIBUTIONS										
1-GATESORTS			ACT_ND	NUM	SPEC_A	FREQ%	ACT_P	NUM	FREQ%	
DET	SORTS	FREQ%	(Bq)	(#)	(Bq/kg)		(kBq)	(#)		
1	122	5.8%	-14000	9	-250	0.9%	4	537	12.7%	
2	386	18.3%	-12000	14	-215	1.4%	8	2,092	49.5%	
3	408	19.3%	-10000	9	-179	0.9%	12	676	16.0%	
4	421	19.9%	-8000	8	-143	0.8%	16	262	6.2%	
5	384	18.2%	-6000	6	-107	0.6%	20	173	4.1%	
6	251	11.9%	-4000	2	-72	0.2%	24	91	2.2%	
7	122	5.8%	-2000	9	-36	0.9%	28	59	1.4%	
8	21	1.0%	0	2	0	0.2%	32	58	1.4%	
TOTAL	2,115		2000	0	36	0.0%	36	31	0.7%	
			4000	6	72	0.6%	40	21	0.5%	
2-GATESORTS			6000	33	107	3.3%	44	18	0.4%	
DET	SORTS	FREQ%	8000	42	143	4.3%	48	22	0.5%	
9	277	13.1%	10000	76	179	7.7%	52	24	0.6%	
10	443	21.0%	12000	139	215	14.1%	56	10	0.2%	
11	442	21.0%	14000	157	250	15.9%	60	10	0.2%	
12	387	18.4%	16000	192	286	19.4%	64	10	0.2%	
13	334	15.9%	18000	191	322	19.3%	68	8	0.2%	
14	163	7.7%	20000	90	358	9.1%	72	6	0.1%	
15	61	2.9%	22000	3	394	0.3%	76	9	0.2%	
TOTAL	2,107		24000	0	429	0.0%	80	4	0.1%	
			26000	0	465	0.0%	84	1	0.0%	
			>28000	0	0	0.0%	>84	100	2.4%	
TOTAL				988			TOTAL	4,222		
EVENT TYPES		HPE	4,247	MPE	4,909	DISE	45,162			



WORK HISTORY - JA SOIL CLEANUP PLANT

09-Apr-94

WORK DAY START	05:00 AM	WORK DAY END	15:30 PM
LUNCH START	12:15 AM	TIME LOST DURING LUNCH	0.5 HR

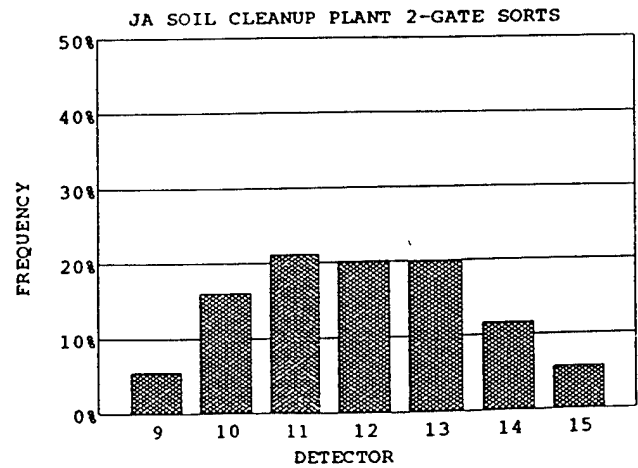
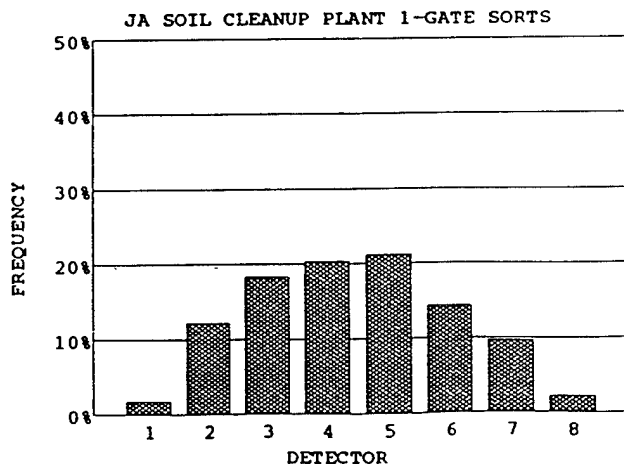
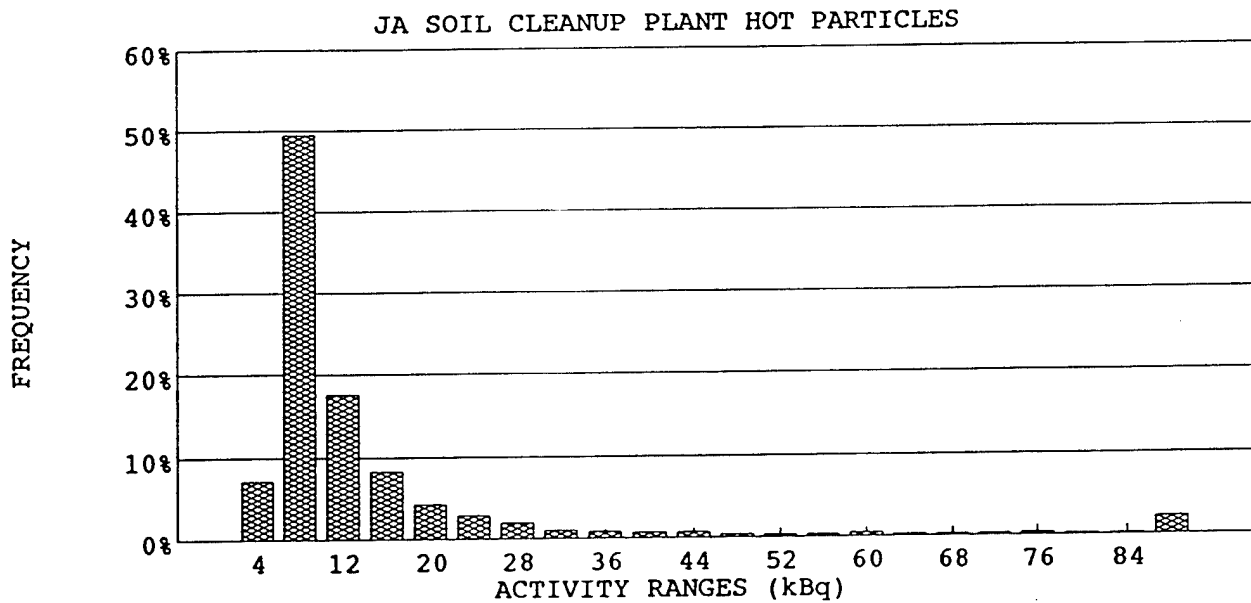
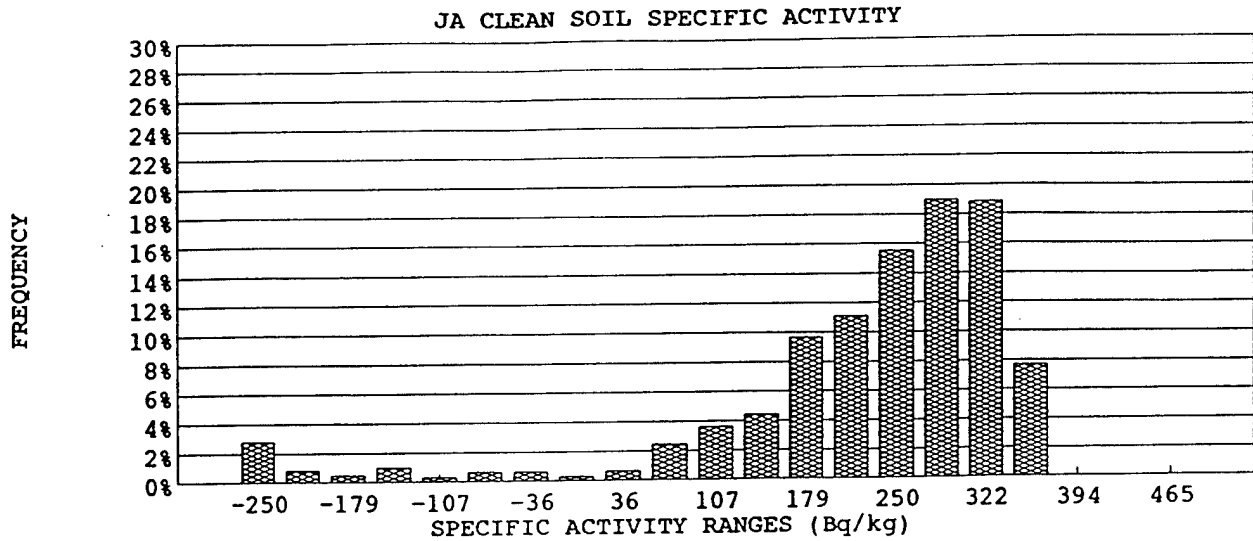
	SORTER 1	SORTER 2	SORTER 3	SORTER 4	TOTAL (sorter hours)
WORK HOURS	10.0 hr	10.0 hr	10.0 hr	10.0 hr	40.0 hr
SORTER AVAILABLE HOURS	7.1 hr	7.1 hr	0.0 hr	0.0 hr	14.2 hr
SORTER START-UP	05:10	05:10	NA	NA	
START SOIL PROCESSING	05:24	05:23	NA	NA	
TIME REQUIRED TO START-UP	0.2 hr	0.2 hr	0.0 hr	0.0 hr	0.5 hr
SORTER SHUT-DOWN	12:15	12:15	NA	NA	
END SOIL PROCESSING	12:02	12:03	NA	NA	
TIME REQUIRED TO SHUT DOWN	0.2 hr	0.2 hr	0.0 hr	0.0 hr	0.4 hr
ACTUAL PROCESS HOURS	6.4 hr	6.4 hr	0.0 hr	0.0 hr	12.8 hr
DOWN-TIME	0.7 hr	0.6 hr	0.0 hr	0.0 hr	1.3 hr
SYSTEM PAUSE	0.3 hr	0.3 hr	0.0 hr	0.0 hr	0.5 hr
SORTER NONAVAILABLE TIME	2.9 hr	2.9 hr	10.0 hr	10.0 hr	25.8 hr
AUTHORIZED DELAY TIME	0.0 hr	0.0 hr	10.0 hr	10.0 hr	20.0 hr
PLANT PERFORMANCE					90.7%
PRODUCTIVITY					32.1%

PRODUCTIVITY

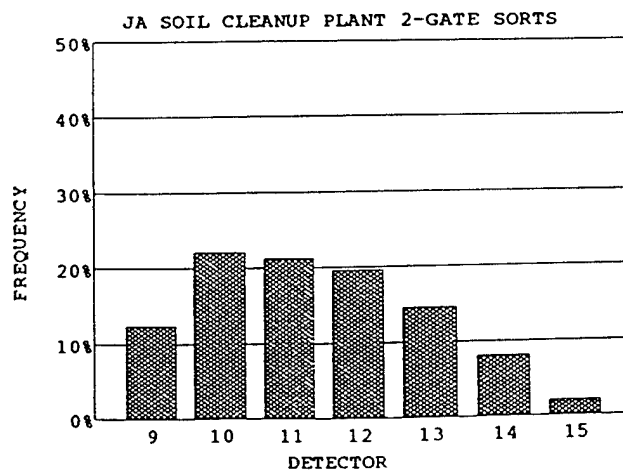
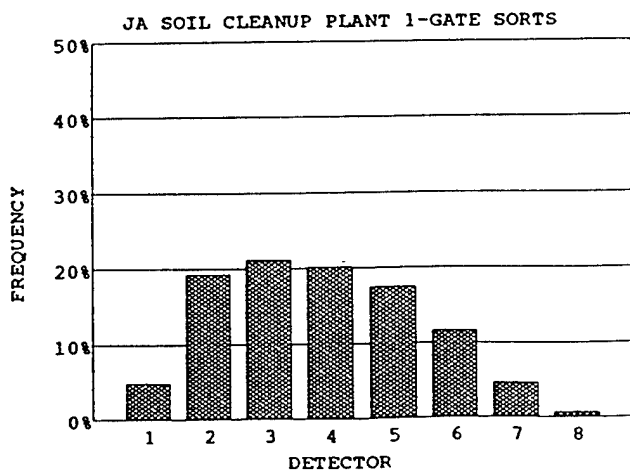
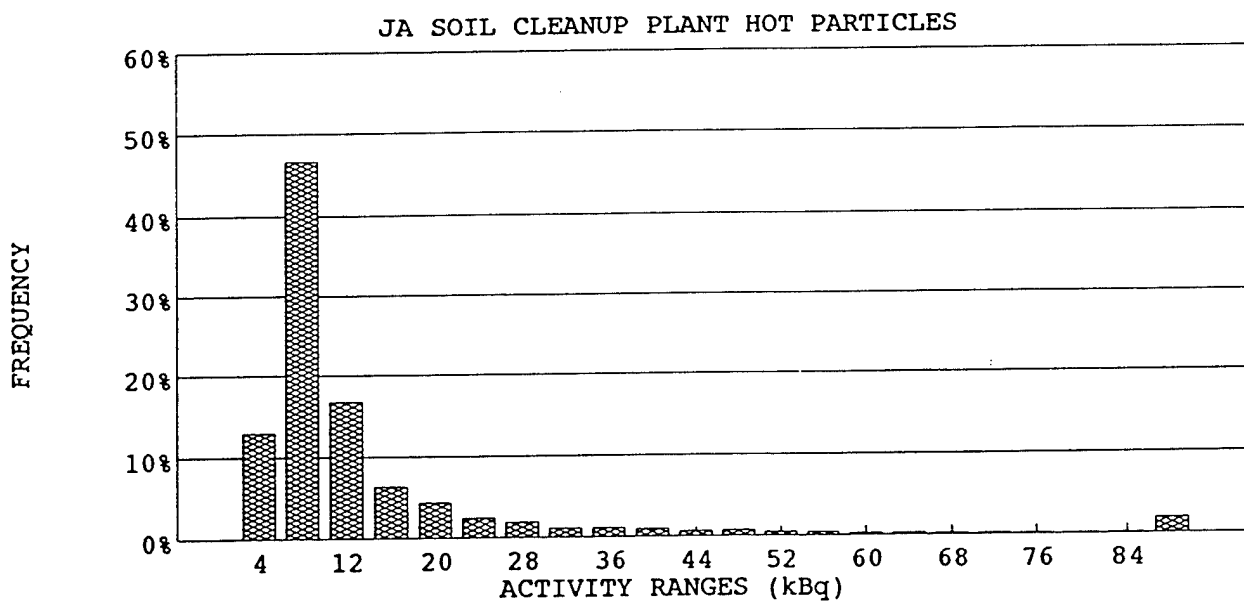
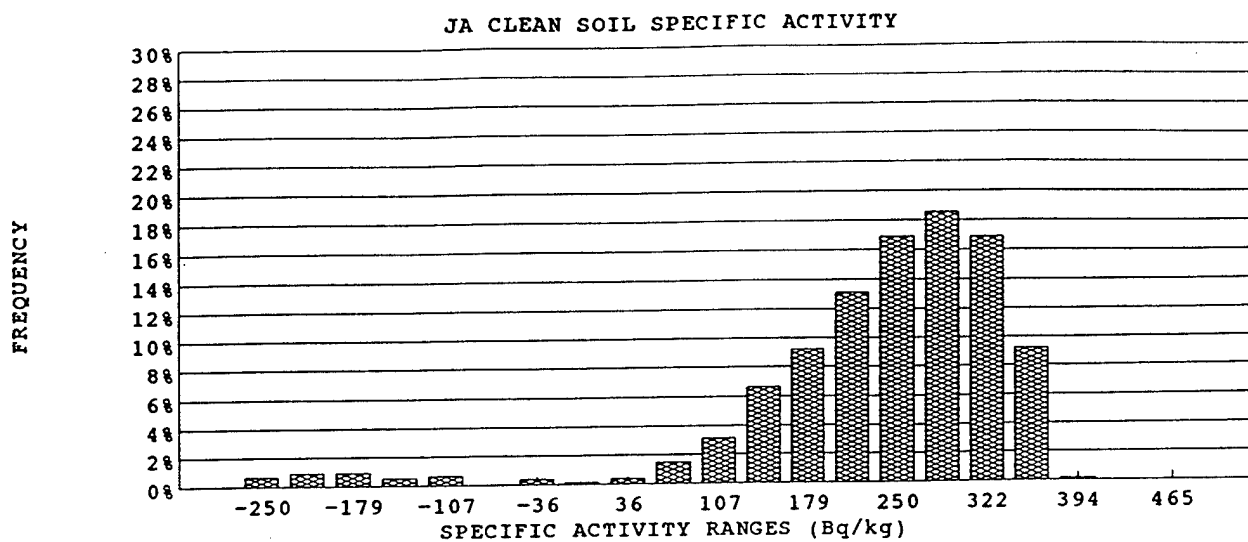
Date	09-Apr-94	Excused Delays for day (sorter-hrs)	20 hr
Contract day (from 6 Sep)	174	Excused delays for contract (sorter-hrs)	2,882 hr
Current Contract week	29	Excused delay days (plant-days)	72 days
		Excused delay months (plant-month)	2.77 months
Soil production for Day	129 MT		
Cumulative Soil Production for Week	856 MT	Percent of contract completed	39.4%
Total Soil production for contract		Tons Ahead or Behind Schedule	1,754 MT
Since 6 Sep 93	37,836 MT	Days ahead or behind schedule	6 days
Since 6 Aug 93	39,427 MT		
Total Soil production for project	65,714 MT		

MT = metric tons

SORTER 1				09-Apr-94					
SORTER SOIL DENSITY		1.20 tons/m ³		BACKGROUND		0.69 ± 0.04 c/s			
SOIL		CONTAMINATED		CLEAN		TOTAL			
MASS TOTAL		32.3 tons		32.2 tons		64.5 tons			
MAXIMUM/SORT		58.1 kg		55.9 kg					
MINIMUM/SORT		0.7 kg		41.9 kg					
VOLUME IN-GROUND		25.6 yd ³		25.5 yd ³		51.1 yd ³			
WEIGHT RECOVERY (CLEAN/(HOT+CLEAN))		49.9%							
ACTIVITY		PARTICLE		DISPERSED + PARTICLE					
				HOT	CLEAN				
TOTAL		63,981 kBq		44,108 kBq	7,015 kBq				
MAXIMUM/SORT		2,807 kBq		1,673 kBq	20 kBq				
MINIMUM/SORT		3 kBq		(31,034)Bq	-20 kBq				
SPECIFIC ACTIVITY				1,364 Bq/kg	218 Bq/kg				
SORTS				1,154		UNEXP	PAUSE		
20-SEC PROCESS PERIODS						TIME	TIME		
ALL 80 ELEMENTS SORT (MD>0&MND=0)				547			06:11	06:08	
NONE (AD=0 & MD=0 & MND>0)				89			08:07	08:03	
SOME (AD>0&0<MD<MNDmax&MND<MNDmax)				518			09:03	08:19	
UNEXPLAINED RECORDS				0			10:40	08:22	
0<AD<1kBq & MD>0				0				09:00	
AD=0 & MD>0				1				10:36	
AD<0 & MD>0				3					
2-SEC COUNT PERIODS				11,540					
2-SEC RECORDS WITH SORTS				4,101					
2-SEC RECORDS WITHOUT SORTS				7,439					
TOTAL PROCESS RECORDS (2-s SORTS and 20-s PERIODS)				5,255					
NONPROCESSING RECORDS (Test, calibration, etc)				4					
2-SEC SORT DETECTORS									
1 DET		2,889	70.4%	5 DET	15	0.4%			
2 DET		909	22.2%	6 DET	0	0.0%			
3 DET		239	5.8%	7 DET	1	0.0%			
4 DET		49	1.2%	8 DET	1	0.0%			
AVERAGE TIME BETWEEN 2-SEC SORTS				8.0 sec					
FREQUENCY DISTRIBUTIONS									
1-GATE SORTS			ACT_ND	NUM	SPEC_A	FREQ%	ACT_P	NUM	FREQ%
DET	SORTS	FREQ%	(Bq)	(#)	(Bq/kg)		(kBq)	(#)	
1	37	1.8%	-14000	17	-250	2.8%	4	293	7.1%
2	256	12.2%	-12000	5	-215	0.8%	8	2,029	49.5%
3	385	18.3%	-10000	3	-179	0.5%	12	722	17.6%
4	428	20.3%	-8000	6	-143	1.0%	16	342	8.3%
5	446	21.2%	-6000	2	-107	0.3%	20	175	4.3%
6	303	14.4%	-4000	4	-72	0.7%	24	119	2.9%
7	204	9.7%	-2000	4	-36	0.7%	28	81	2.0%
8	45	2.1%	0	2	0	0.3%	32	42	1.0%
TOTAL	2,104		2000	4	36	0.7%	36	34	0.8%
			4000	15	72	2.5%	40	29	0.7%
			6000	22	107	3.6%	44	29	0.7%
2-GATE SORTS			8000	27	143	4.4%	48	17	0.4%
DET	SORTS	FREQ%	10000	59	179	9.7%	52	12	0.3%
9	111	5.6%	12000	68	215	11.1%	56	14	0.3%
10	320	16.0%	14000	95	250	15.5%	60	18	0.4%
11	424	21.2%	16000	116	286	19.0%	64	9	0.2%
12	401	20.1%	18000	115	322	18.8%	68	10	0.2%
13	396	19.8%	20000	47	358	7.7%	72	11	0.3%
14	232	11.6%	22000	0	394	0.0%	76	13	0.3%
15	113	5.7%	24000	0	429	0.0%	80	5	0.1%
TOTAL	1,997		26000	0	465	0.0%	84	8	0.2%
			>28000	0	0	0.0%	>84	89	2.2%
			TOTAL	611			TOTAL	4,101	
EVENT TYPES		HPE	3,908	MPE	4935	DISE	37443		



SORTER 2				09-Apr-94					
SORTER SOIL DENSITY		1.20 tons/m³		BACKGROUND		0.77 ± 0.05 c/s			
SOIL		CONTAMINATED		CLEAN		TOTAL			
MASS TOTAL		25.7 tons		39.0 tons		64.7 tons			
MAXIMUM/SORT		58.1 kg		55.9 kg					
MINIMUM/SORT		0.7 kg		41.2 kg					
VOLUME IN-GROUND		20.4 yd³		30.9 yd³		51.3 yd³			
WEIGHT RECOVERY (CLEAN/(HOT+CLEAN))		60.3%							
ACTIVITY		PARTICLE		DISPERSED + PARTICLE					
TOTAL		54,150 kBq		HOT 35,964 kBq		CLEAN 8,985 kBq			
MAXIMUM/SORT		1,564 kBq		1,252 kBq		20 kBq			
MINIMUM/SORT		2 kBq		(27,853)Bq		-19 kBq			
SPECIFIC ACTIVITY				1,398 Bq/kg		230 Bq/kg			
SORTS									
20-SEC PROCESS PERIODS				1,158		UNEXP PAUSE			
ALL 80 ELEMENTS SORT (MD>0&MND=0)				421		TIME TIME			
NONE (AD=0 & MD=0 & MND>0)				85		06:11 06:08			
SOME (AD>0&0<MD<MNDmax&MND<MNDmax)				652		06:12 06:12			
UNEXPLAINED RECORDS				0		08:07 08:03			
0<AD<1kBq & MD>0				0		09:03 08:19			
AD=0 & MD>0				1		10:40 09:00			
AD<0 & MD >0				4		10:36			
2-SEC COUNT PERIODS				11,580					
2-SEC RECORDS WITH SORTS				3,715					
2-SEC RECORDS WITHOUT SORTS				7,865					
TOTAL PROCESS RECORDS (2-s SORTS and 20-s PERIODS)				4,873					
NONPROCESSING RECORDS (Test, calibration, etc)				2					
2-SEC SORT DETECTORS									
1 DET		2,633	70.9%	5 DET	2	0.1%			
2 DET		860	23.1%	6 DET	0	0.0%			
3 DET		183	4.9%	7 DET	0	0.0%			
4 DET		37	1.0%	8 DET	0	0.0%			
AVERAGE TIME BETWEEN 2-SEC SORTS				8.8 sec					
FREQUENCY DISTRIBUTIONS									
1-GATE SORTS			ACT_ND	NUM	SPEC_A	FREQ%	ACT_P	NUM	FREQ%
DET	SORTS	FREQ%	(Bq)	(#)	(Bq/kg)		(kBq)	(#)	
1	92	4.9%	-14000	5	-250	0.7%	4	482	13.0%
2	363	19.3%	-12000	7	-215	0.9%	8	1,733	46.6%
3	399	21.2%	-10000	7	-179	0.9%	12	621	16.7%
4	380	20.2%	-8000	4	-143	0.5%	16	237	6.4%
5	329	17.5%	-6000	5	-107	0.7%	20	162	4.4%
6	219	11.6%	-4000	0	-72	0.0%	24	90	2.4%
7	87	4.6%	-2000	3	-36	0.4%	28	71	1.9%
8	12	0.6%	0	1	0	0.1%	32	42	1.1%
TOTAL	1,881		2000	3	36	0.4%	36	41	1.1%
			4000	11	72	1.5%	40	34	0.9%
2-GATE SORTS			6000	23	107	3.1%	44	23	0.6%
DET	SORTS	FREQ%	8000	49	143	6.6%	48	27	0.7%
9	228	12.4%	10000	68	179	9.2%	52	18	0.5%
10	405	22.1%	12000	97	215	13.1%	56	15	0.4%
11	390	21.3%	14000	125	250	16.9%	60	10	0.3%
12	360	19.6%	16000	137	286	18.5%	64	11	0.3%
13	267	14.6%	18000	125	322	16.9%	68	6	0.2%
14	147	8.0%	20000	68	358	9.2%	72	8	0.2%
15	37	2.0%	22000	1	394	0.1%	76	5	0.1%
TOTAL	1,834		24000	0	429	0.0%	80	3	0.1%
			26000	0	465	0.0%	84	5	0.1%
			>28000	0	0	0.0%	>84	71	1.9%
			TOTAL	739			TOTAL	3,715	
EVENT TYPES		HPE	3,610	MPE	4330	DISE	28880		



WORK HISTORY - JA SOIL CLEANUP PLANT

11 - Apr - 94

WORK DAY START	06:00 AM	WORK DAY END	16:30 PM
LUNCH START	12:30 AM	TIME LOST DURING LUNCH	0.5 HR

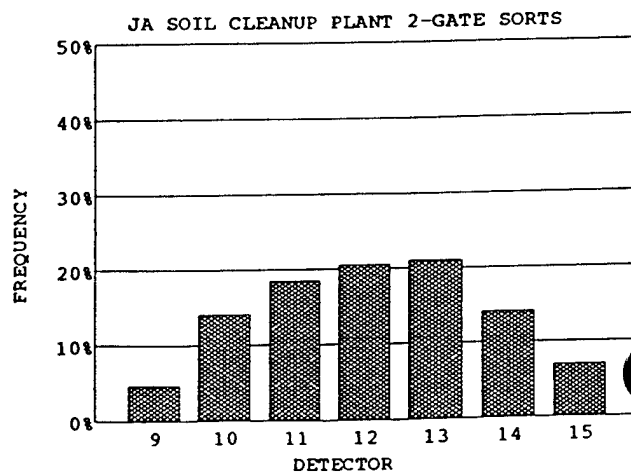
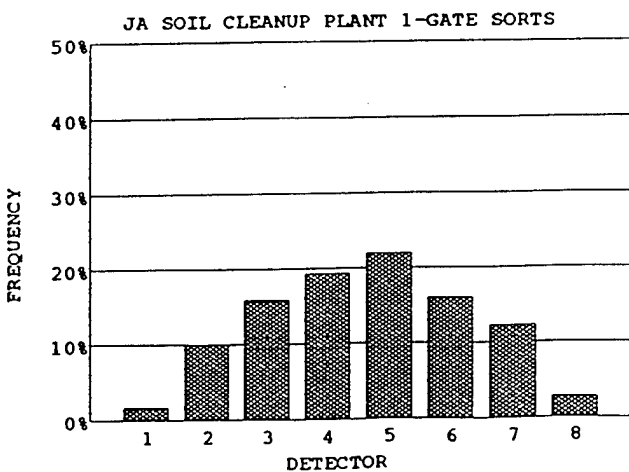
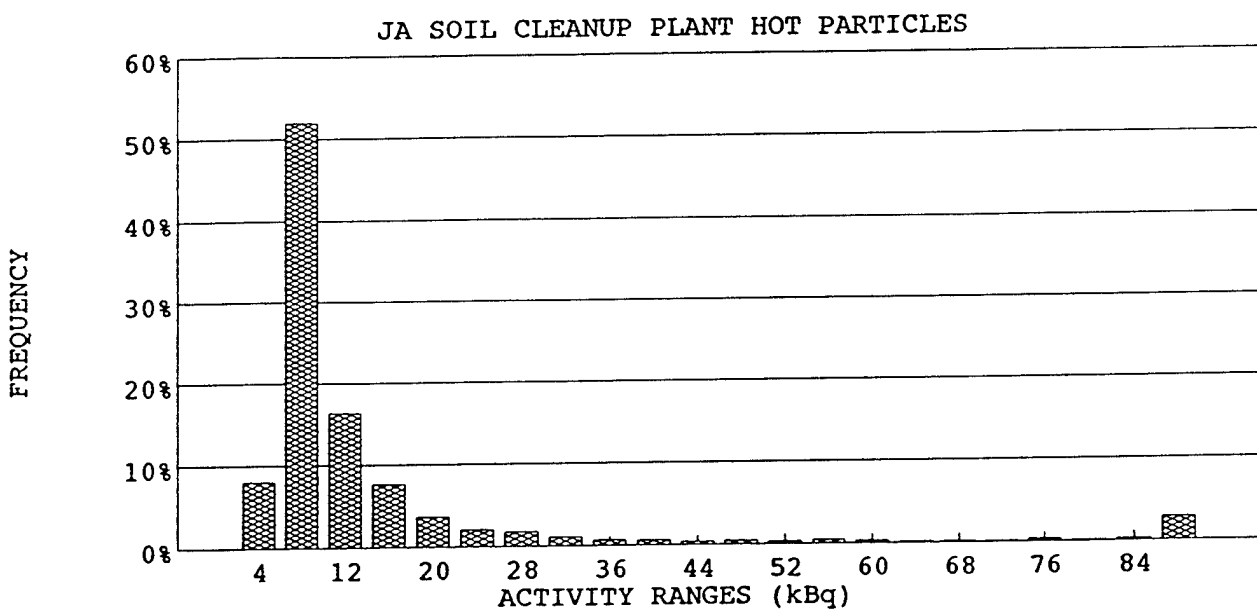
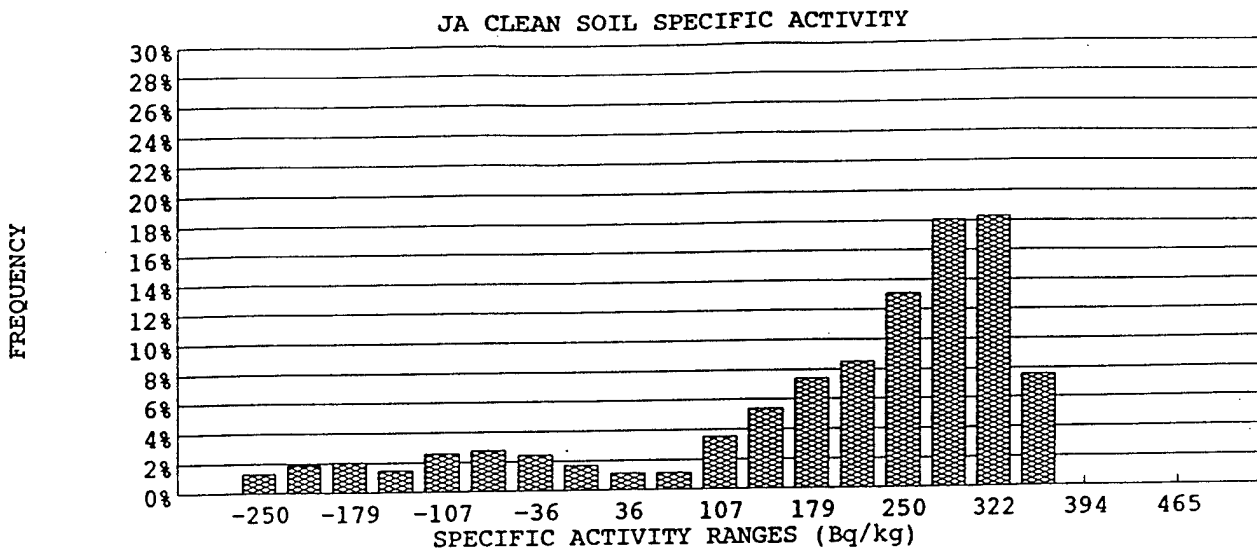
	SORTER 1	SORTER 2	SORTER 3	SORTER 4	TOTAL (sorter hours)
WORK HOURS	10.0 hr	10.0 hr	10.0 hr	10.0 hr	40.0 hr
SORTER AVAILABLE HOURS	9.3 hr	9.3 hr	0.0 hr	0.0 hr	18.7 hr
SORTER START-UP	06:30	06:30	NA	NA	
START SOIL PROCESSING	06:46	06:46	NA	NA	
TIME REQUIRED TO START-UP	0.3 hr	0.3 hr	0.0 hr	0.0 hr	0.5 hr
SORTER SHUT-DOWN	16:20	16:20	NA	NA	
END SOIL PROCESSING	16:13	16:14	NA	NA	
TIME REQUIRED TO SHUT DOWN	0.1 hr	0.1 hr	0.0 hr	0.0 hr	0.2 hr
ACTUAL PROCESS HOURS	7.5 hr	5.7 hr	0.0 hr	0.0 hr	13.3 hr
DOWN-TIME	1.8 hr	3.6 hr	0.0 hr	0.0 hr	5.4 hr
SYSTEM PAUSE	2.0 hr	3.8 hr	0.0 hr	0.0 hr	5.8 hr
SORTER NONAVAILABLE TIME	0.7 hr	0.7 hr	10.0 hr	10.0 hr	21.3 hr
AUTHORIZED DELAY TIME	0.0 hr	0.0 hr	10.0 hr	10.0 hr	20.0 hr
PLANT PERFORMANCE					71.2%
PRODUCTIVITY					33.2%

PRODUCTIVITY

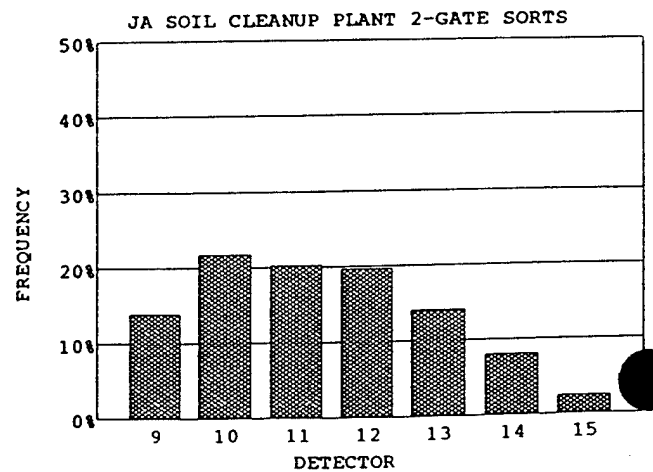
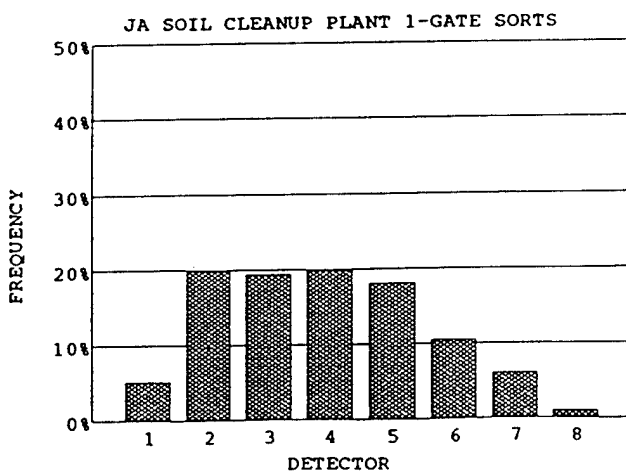
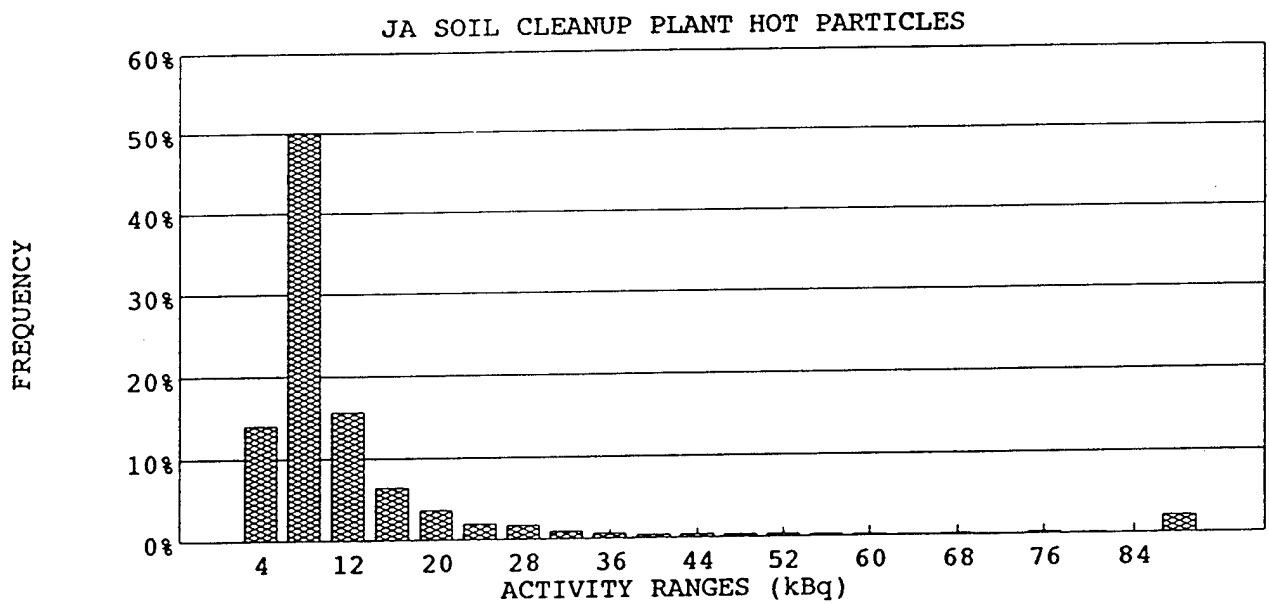
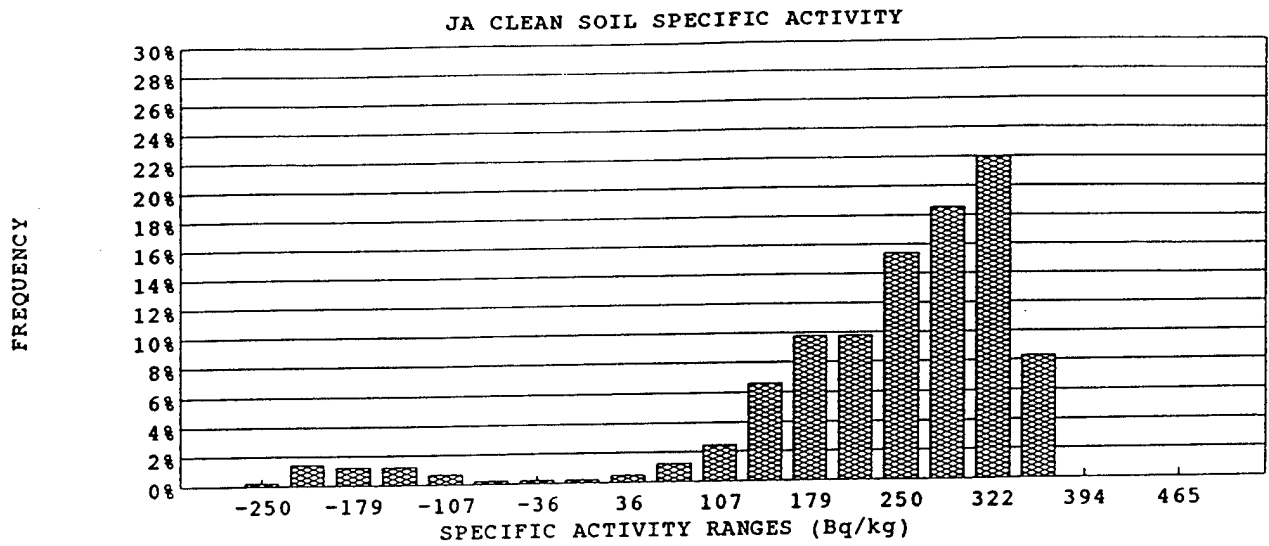
Date	11 - Apr - 94	Excused Delays for day (sorter-hrs)	20 hr
Contract day (from 6 Sep)	175	Excused delays for contract (sorter-hrs)	2,902 hr
Current Contract week	30	Excused delay days (plant-days)	73 days
		Excused delay months (plant-month)	2.79 months
Soil production for Day	134 MT		
Cumulative Soil Production for Week	134 MT	Percent of contract completed	39.6%
Total Soil production for contract		Tons Ahead or Behind Schedule	1,729 MT
Since 6 Sep 93	37,970 MT	Days ahead or behind schedule	5 days
Since 6 Aug 93	39,561 MT		
Total Soil production for project	65,848 MT		

MT = metric tons

SORTER 1				11-Apr-94					
SORTER SOIL DENSITY		1.20 tons/m ³		BACKGROUND		0.69 ± 0.04 c/s			
SOIL		CONTAMINATED		CLEAN		TOTAL			
MASS TOTAL		47.3 tons		28.7 tons		75.9 tons			
MAXIMUM/SORT		58.1 kg		55.9 kg					
MINIMUM/SORT		0.7 kg		41.9 kg					
VOLUME IN-GROUND		37.5 yd ³		22.7 yd ³		60.2 yd ³			
WEIGHT RECOVERY (CLEAN/(HOT+CLEAN))		37.8%							
ACTIVITY		PARTICLE		DISPERSED + PARTICLE					
				HOT		CLEAN			
TOTAL		84,291 kBq		57,514 kBq		5,407 kBq			
MAXIMUM/SORT		5,999 kBq		3,731 kBq		20 kBq			
MINIMUM/SORT		2 kBq		(12,003)Bq		-19 kBq			
SPECIFIC ACTIVITY				1,217 Bq/kg		189 Bq/kg			
SORTS				1,358		UNEXP PAUSE			
20-SEC PROCESS PERIODS						TIME TIME			
ALL 80 ELEMENTS SORT (MD>0&MND=0)				819		07:11 07:10			
NONE (AD=0 & MD=0 & MND>0)				129		16:13 08:24			
SOME (AD>0&0<MD<MNDmax&MND<MNDmax)				410		08:31			
UNEXPLAINED RECORDS				0		08:35			
0<AD<1kBq & MD>0				0		08:37			
AD=0 & MD>0				0		08:38			
AD<0 & MD >0				2		08:39			
2-SEC COUNT PERIODS				13,580		08:41			
2-SEC RECORDS WITH SORTS				4,340		10:49			
2-SEC RECORDS WITHOUT SORTS				9,240		12:34			
TOTAL PROCESS RECORDS (2-s SORTS and 20-s PERIODS)				5,698		12:59			
NONPROCESSING RECORDS (Test, calibration, etc)				3		14:26			
2-SEC SORT DETECTORS						15:39			
1 DET		3,124	72.0%	5 DET		9	0.2%		
2 DET		971	22.4%	6 DET		0	0.0%		
3 DET		197	4.5%	7 DET		0	0.0%		
4 DET		39	0.9%	8 DET		0	0.0%		
AVERAGE TIME BETWEEN 2-SEC SORTS				8.7 sec					
FREQUENCY DISTRIBUTIONS									
1-GATESORTS			ACT_ND	NUM	SPEC_A	FREQ%	ACT_P	NUM	FREQ%
DET	SORTS	FREQ%	(Bq)	(#)	(Bq/kg)		(kBq)	(#)	
1	38	1.7%	-14000	7	-250	1.3%	4	351	8.1%
2	222	10.0%	-12000	10	-215	1.8%	8	2,256	52.0%
3	354	15.9%	-10000	11	-179	2.0%	12	708	16.3%
4	430	19.3%	-8000	8	-143	1.5%	16	336	7.7%
5	489	22.0%	-6000	14	-107	2.6%	20	162	3.7%
6	358	16.1%	-4000	15	-72	2.8%	24	91	2.1%
7	273	12.3%	-2000	13	-36	2.4%	28	76	1.8%
8	62	2.8%	0	9	0	1.7%	32	46	1.1%
TOTAL	2,226		2000	6	36	1.1%	36	29	0.7%
			4000	6	72	1.1%	40	28	0.6%
2-GATE SORTS			6000	19	107	3.5%	44	17	0.4%
DET	SORTS	FREQ%	8000	29	143	5.4%	48	20	0.5%
9	100	4.7%	10000	40	179	7.4%	52	13	0.3%
10	298	14.1%	12000	46	215	8.5%	56	19	0.4%
11	392	18.5%	14000	71	250	13.1%	60	15	0.3%
12	433	20.5%	16000	98	286	18.1%	64	9	0.2%
13	444	21.0%	18000	99	322	18.3%	68	7	0.2%
14	299	14.1%	20000	41	358	7.6%	72	5	0.1%
15	148	7.0%	22000	0	394	0.0%	76	15	0.3%
TOTAL	2,114		24000	0	429	0.0%	80	2	0.0%
			26000	0	465	0.0%	84	12	0.3%
			>28000	0	0	0.0%	>84	123	2.8%
			TOTAL	542			TOTAL	4,340	
EVENT TYPES		HPE	4,155	MPE	5,477	DISE	57,986		



SORTER 2				11-Apr-94				
SORTER SOIL DENSITY		1.20 tons/m³		BACKGROUND		0.79 ± 0.04 c/s		
SOIL		CONTAMINATED		CLEAN		TOTAL		
MASS TOTAL		36.3 tons		21.5 tons		57.8 tons		
MAXIMUM/SORT		58.1 kg		55.9 kg				
MINIMUM/SORT		0.7 kg		40.5 kg				
VOLUME IN-GROUND		28.8 yd³		17.1 yd³		45.8 yd³		
WEIGHT RECOVERY (CLEAN/(HOT+CLEAN))		37.3%						
ACTIVITY		PARTICLE		DISPERSED + PARTICLE				
				HOT		CLEAN		
TOTAL		53,278 kBq		40,119 kBq		4,985 kBq		
MAXIMUM/SORT		1,982 kBq		1,643 kBq		20 kBq		
MINIMUM/SORT		2 kBq		(19,233)Bq		-15 kBq		
SPECIFIC ACTIVITY				1,106 Bq/kg		231 Bq/kg		
SORTS						PAUSE		
20-SEC PROCESS PERIODS				1,034		UNEXP 06:53		
ALL 80 ELEMENTS SORT (MD>0&MND=0)		625				TIME 06:54		
NONE (AD=0 & MD=0 & MND>0)		61				08:36 06:58		
SOME (AD>0&0<MD<MNDmax&MND<MNDmax)		348				08:49 06:59		
UNEXPLAINED RECORDS		0				09:02 08:13		
0<AD<1kBq & MD>0		0				09:03 08:31		
AD=0 & MD>0		4				09:06 08:36		
AD<0 & MD >0		2				16:13 08:58		
2-SEC COUNT PERIODS				10,340		09:02		
2-SEC RECORDS WITH SORTS		3,485				09:03		
2-SEC RECORDS WITHOUT SORTS		6,855				09:04		
TOTAL PROCESS RECORDS (2-s SORTS and 20-s PERIODS)				4,519		09:07		
NONPROCESSING RECORDS (Test, calibration, etc)				1		09:15		
2-SEC SORT DETECTORS						09:29		
1 DET	2,540 72.9%	5 DET	7 0.2%			10:49		
2 DET	730 20.9%	6 DET	0 0.0%			12:34		
3 DET	181 5.2%	7 DET	0 0.0%			12:59		
4 DET	27 0.8%	8 DET	0 0.0%			14:26		
AVERAGE TIME BETWEEN 2-SEC SORTS		8.1 sec				15:40		
FREQUENCY DISTRIBUTIONS				16:07				
1-GATES SORTS		ACT_ND	NUM	SPEC_A	FREQ%	ACT_P	NUM	FREQ%
DET	SORTS	(Bq)	(#)	(Bq/kg)		(kBq)	(#)	
1	90	-14000	1	-250	0.2%	4	490	14.1%
2	344	-12000	6	-215	1.5%	8	1,746	50.1%
3	337	-10000	5	-179	1.2%	12	546	15.7%
4	346	-8000	5	-143	1.2%	16	225	6.5%
5	314	-6000	3	-107	0.7%	20	127	3.6%
6	181	-4000	1	-72	0.2%	24	69	2.0%
7	104	-2000	1	-36	0.2%	28	59	1.7%
8	17	0	1	0	0.2%	32	33	0.9%
TOTAL	1,733	2000	2	36	0.5%	36	23	0.7%
		4000	5	72	1.2%	40	14	0.4%
		6000	10	107	2.4%	44	15	0.4%
2-GATES SORTS		8000	27	143	6.6%	48	12	0.3%
DET	SORTS	10000	40	179	9.8%	52	11	0.3%
9	243	12000	40	215	9.8%	56	8	0.2%
10	381	14000	63	250	15.4%	60	6	0.2%
11	355	16000	76	286	18.5%	64	4	0.1%
12	344	18000	90	322	22.0%	68	7	0.2%
13	246	20000	34	358	8.3%	72	2	0.1%
14	141	22000	0	394	0.0%	76	8	0.2%
15	42	24000	0	429	0.0%	80	4	0.1%
TOTAL	1,752	26000	0	465	0.0%	84	1	0.0%
		>28000	0	0	0.0%	>84	75	2.2%
		TOTAL	410			TOTAL	3,485	
EVENT TYPES		HPE	3,453	MPE	4,489	DISE	43,985	



WORK HISTORY - JA SOIL CLEANUP PLANT

12-Apr-94

WORK DAY START	06:00 AM	WORK DAY END	16:30 PM
LUNCH START	11:00 AM	TIME LOST DURING LUNCH	0.5 HR

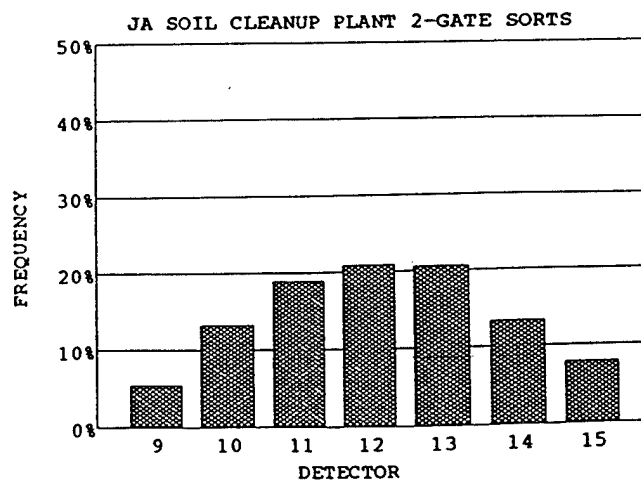
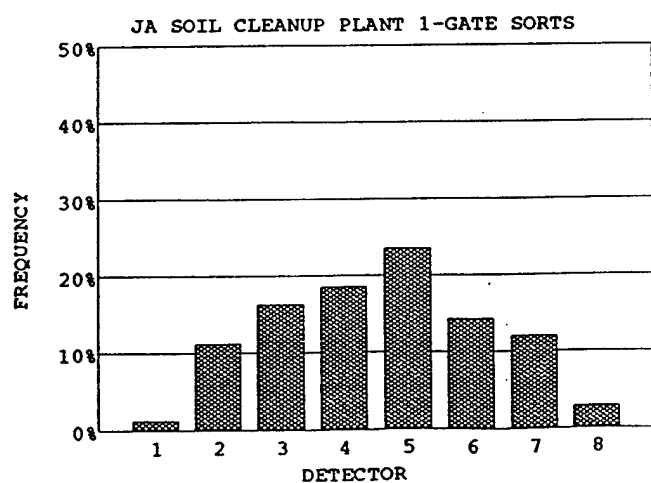
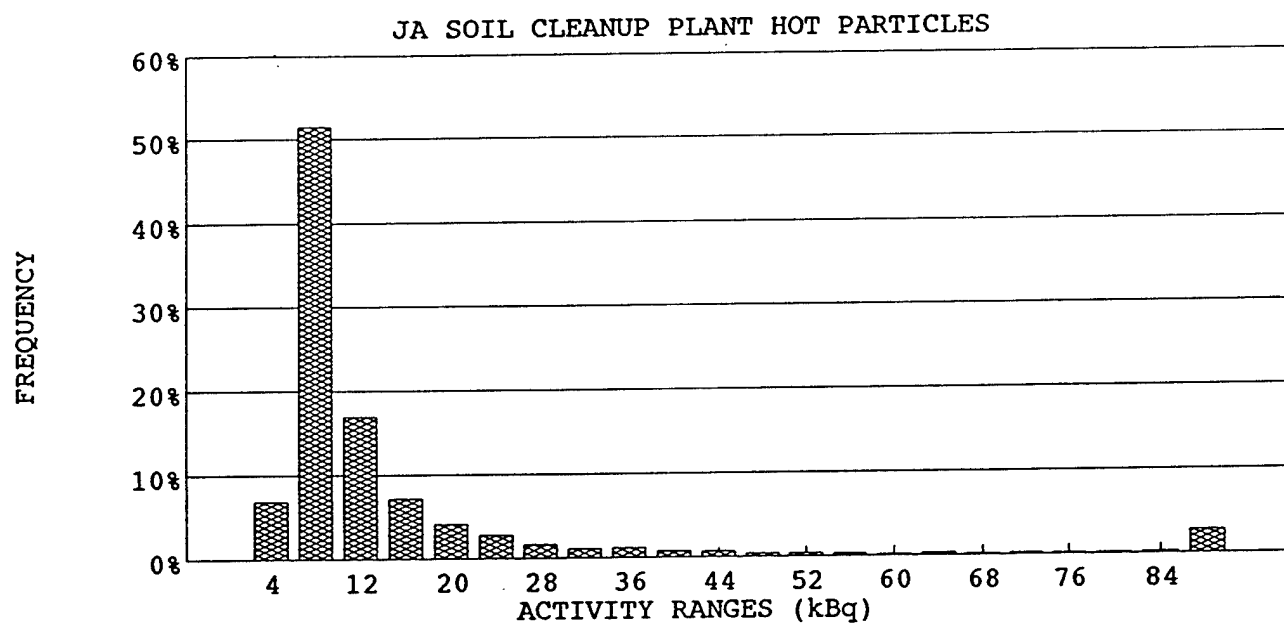
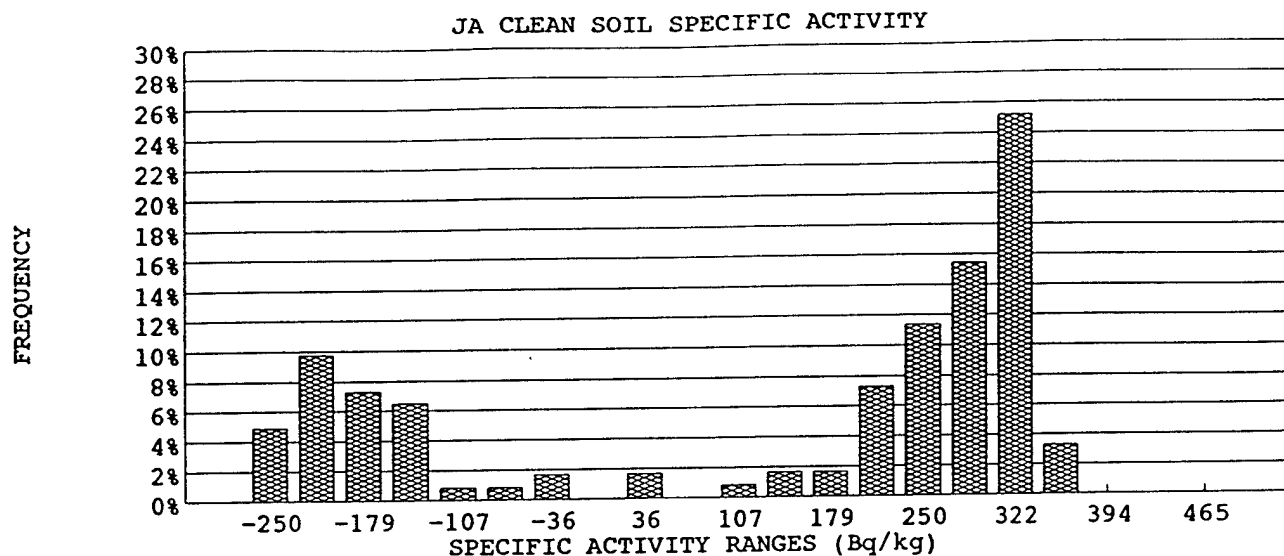
	SORTER 1	SORTER 2	SORTER 3	SORTER 4	TOTAL (sorter hours)
WORK HOURS	10.0 hr	10.0 hr	10.0 hr	10.0 hr	40.0 hr
SORTER AVAILABLE HOURS	6.3 hr	6.3 hr	0.0 hr	0.0 hr	12.7 hr
SORTER START-UP	06:10	06:10	NA	NA	
START SOIL PROCESSING	06:22	06:22	NA	NA	
TIME REQUIRED TO START-UP	0.2 hr	0.2 hr	0.0 hr	0.0 hr	0.4 hr
SORTER SHUT-DOWN	13:00	13:00	NA	NA	
END SOIL PROCESSING	12:38	12:37	NA	NA	
TIME REQUIRED TO SHUT DOWN	0.4 hr	0.4 hr	0.0 hr	0.0 hr	0.7 hr
ACTUAL PROCESS HOURS	4.9 hr	4.8 hr	0.0 hr	0.0 hr	9.7 hr
DOWN-TIME	1.5 hr	1.5 hr	0.0 hr	0.0 hr	3.0 hr
SYSTEM PAUSE	1.3 hr	1.3 hr	0.0 hr	0.0 hr	2.7 hr
SORTER NONAVAILABLE TIME	3.7 hr	3.7 hr	10.0 hr	10.0 hr	27.3 hr
AUTHORIZED DELAY TIME	0.0 hr	0.0 hr	10.0 hr	10.0 hr	20.0 hr
PLANT PERFORMANCE					76.6%
PRODUCTIVITY					24.3%

PRODUCTIVITY

Date	12-Apr-94	Excused Delays for day (sorter-hrs)	20 hr
Contract day (from 6 Sep)	176	Excused delays for contract (sorter-hrs)	2,922 hr
Current Contract week	30	Excused delay days (plant-days)	73 days
		Excused delay months (plant-month)	2.81 months
Soil production for Day	98 MT		
Cumulative Soil Production for Week	231 MT	Percent of contract completed	39.7%
Total Soil production for contract		Tons Ahead or Behind Schedule	1,668 MT
Since 6 Sep 93	38,068 MT	Days ahead or behind schedule	5 days
Since 6 Aug 93	39,659 MT		
Total Soil production for project	65,945 MT		

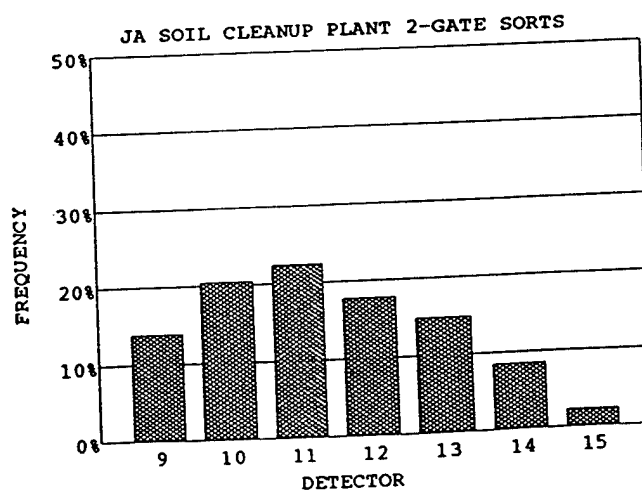
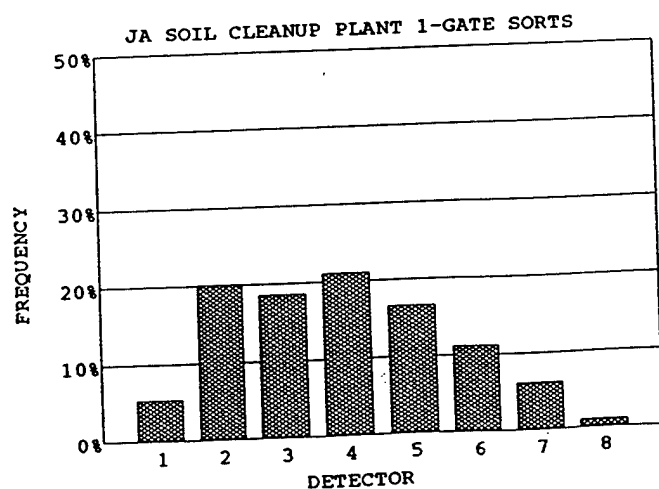
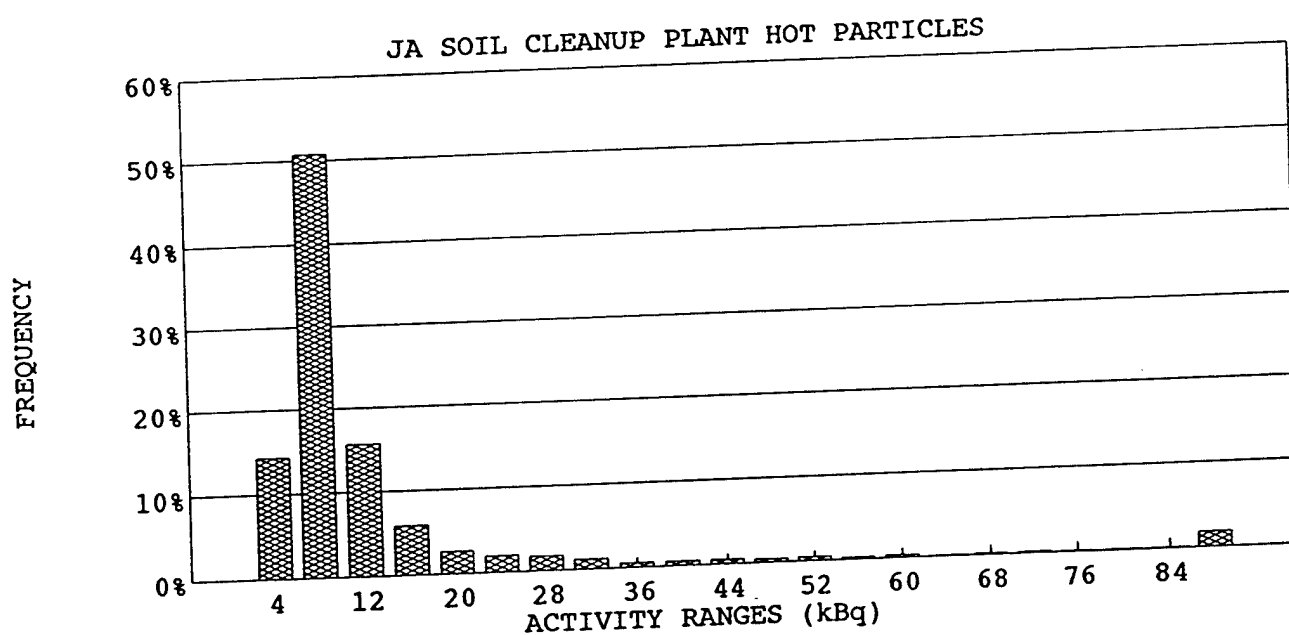
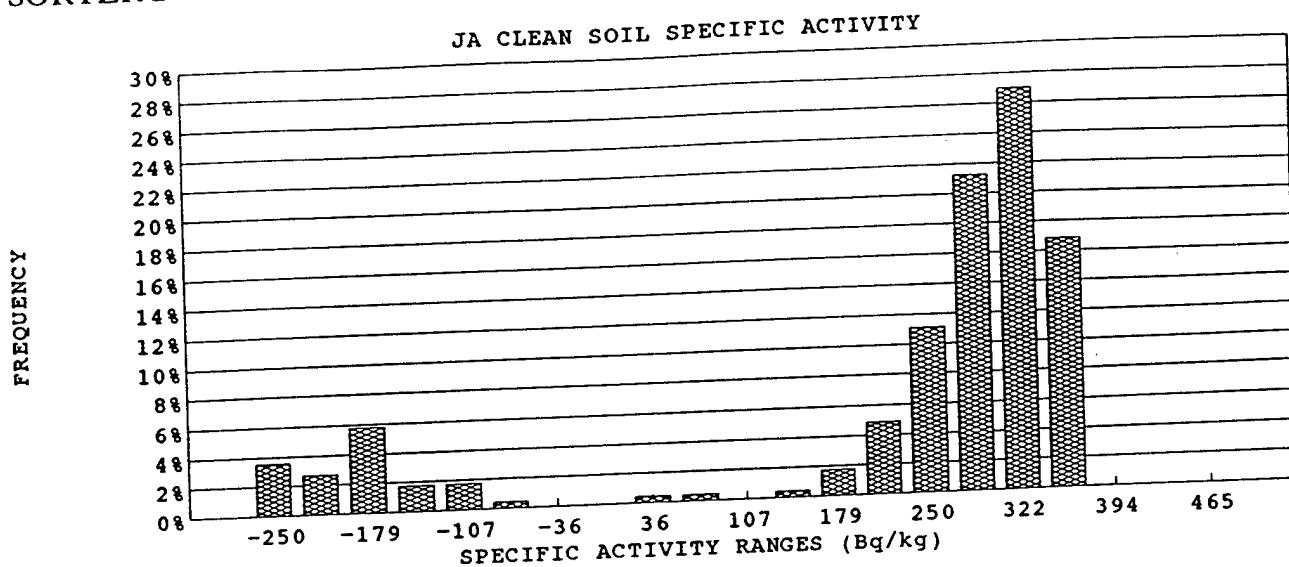
MT = metric tons

SORTER 1				12-Apr-94					
SORTER SOIL DENSITY		1.20 tons/m ³		BACKGROUND		0.69 ± 0.03 c/s			
SOIL		CONTAMINATED		CLEAN		TOTAL			
MASS TOTAL		43.5 tons		5.4 tons		48.9 tons			
MAXIMUM/SORT		58.1 kg		55.9 kg					
MINIMUM/SORT		0.7 kg		31.4 kg					
VOLUME IN-GROUND		34.5 yd ³		4.3 yd ³		38.7 yd ³			
WEIGHT RECOVERY (CLEAN/(HOT+CLEAN))		11.1%							
ACTIVITY		PARTICLE		DISPERSED + PARTICLE					
				HOT		CLEAN			
TOTAL		51,426 kBq		44,384 kBq		998 kBq			
MAXIMUM/SORT		1,875 kBq		1,360 kBq		18 kBq			
MINIMUM/SORT		2 kBq		0 Bq		-14 kBq			
SPECIFIC ACTIVITY				1,021 Bq/kg		185 Bq/kg			
SORTS				874		UNEXP PAUSE			
20-SEC PROCESS PERIODS						TIME TIME			
ALL 80 ELEMENTS SORT (MD>0&MND=0)				770		None 07:16			
NONE (AD=0 & MD=0 & MND>0)				20		09:42			
SOME (AD>0&0<MD<MNDmax&MND<MNDmax)				84		10:48			
UNEXPLAINED RECORDS				0		11:51			
0<AD<1kBq & MD>0				0					
AD=0 & MD>0				0					
AD<0 & MD >0				0					
2-SEC COUNT PERIODS				8,740					
2-SEC RECORDS WITH SORTS				3,059					
2-SEC RECORDS WITHOUT SORTS				5,681					
TOTAL PROCESS RECORDS (2-s SORTS and 20-s PERIODS)				3,933					
NONPROCESSING RECORDS (Test, calibration, etc)				19					
2-SEC SORT DETECTORS									
1 DET		2,163	70.7%	5 DET	10	0.3%			
2 DET		707	23.1%	6 DET	0	0.0%			
3 DET		149	4.9%	7 DET	0	0.0%			
4 DET		30	1.0%	8 DET	0	0.0%			
AVERAGE TIME BETWEEN 2-SEC SORTS				8.1 sec					
FREQUENCY DISTRIBUTIONS									
1-GATE SORTS			ACT_ND	NUM	SPEC_A	FREQ%	ACT_P	NUM	FREQ%
DET	SORTS	FREQ%	(Bq)	(#)	(Bq/kg)		(kBq)	(#)	
1	19	1.2%	-14000	6	-250	4.9%	4	209	6.8%
2	174	11.1%	-12000	12	-215	9.8%	8	1,574	51.5%
3	255	16.3%	-10000	9	-179	7.3%	12	516	16.9%
4	291	18.6%	-8000	8	-143	6.5%	16	219	7.2%
5	368	23.6%	-6000	1	-107	0.8%	20	126	4.1%
6	223	14.3%	-4000	1	-72	0.8%	24	85	2.8%
7	188	12.0%	-2000	2	-36	1.6%	28	50	1.6%
8	44	2.8%	0	0	0	0.0%	32	34	1.1%
TOTAL	1,562		2000	2	36	1.6%	36	36	1.2%
			4000	0	72	0.0%	40	25	0.8%
			6000	1	107	0.8%	44	21	0.7%
2-GATE SORTS			8000	2	143	1.6%	48	12	0.4%
DET	SORTS	FREQ%	10000	2	179	1.6%	52	13	0.4%
9	80	5.3%	12000	9	215	7.3%	56	9	0.3%
10	198	13.2%	14000	14	250	11.4%	60	6	0.2%
11	283	18.9%	16000	19	286	15.4%	64	9	0.3%
12	312	20.8%	18000	31	322	25.2%	68	5	0.2%
13	308	20.6%	20000	4	358	3.3%	72	7	0.2%
14	199	13.3%	22000	0	394	0.0%	76	4	0.1%
15	117	7.8%	24000	0	429	0.0%	80	6	0.2%
TOTAL	1,497		26000	0	465	0.0%	84	8	0.3%
			>28000	0	0	0.0%	>84	85	2.8%
			TOTAL	123			TOTAL	3,059	
EVENT TYPES		HPE	2,975	MPE	4,113	DISE	55,107		



SORTER 2				12-Apr-94					
SORTER SOIL DENSITY			1.20 tons/m ³	BACKGROUND		0.80 ±	0.03 c/s		
SOIL		CONTAMINATED		CLEAN		TOTAL			
MASS TOTAL		38.3 tons		10.5 tons		48.7 tons			
MAXIMUM/SORT		58.1 kg		55.9 kg					
MINIMUM/SORT		0.7 kg		36.3 kg					
VOLUME IN-GROUND		30.3 yd ³		8.3 yd ³		38.6 yd ³			
WEIGHT RECOVERY (CLEAN/(HOT+CLEAN))		21.5%							
ACTIVITY		PARTICLE		DISPERSED + PARTICLE					
				HOT	CLEAN				
TOTAL		46,248 kBq		36,941 kBq	2,814 kBq				
MAXIMUM/SORT		3,934 kBq		1,994 kBq	20 kBq				
MINIMUM/SORT		2 kBq		0 Bq	-16 kBq				
SPECIFIC ACTIVITY				965 Bq/kg	269 Bq/kg				
SORTS				872		UNEXP	PAUSE		
20-SEC PROCESS PERIODS						TIME	TIME		
ALL 80 ELEMENTS SORT (MD>0&MND=0)				667		None	07:16		
NONE (AD=0 & MD=0 & MND>0)				13			09:42		
SOME (AD>0&0<MD<MNDmax&MND<MNDmax)				192			10:48		
UNEXPLAINED RECORDS				0			11:51		
0<AD<1kBq & MD>0				0					
AD=0 & MD>0				0					
AD<0 & MD >0				0					
2-SEC COUNT PERIODS				8,720					
2-SEC RECORDS WITH SORTS				3,041					
2-SEC RECORDS WITHOUT SORTS				5,679					
TOTAL PROCESS RECORDS (2-s SORTS and 20-s PERIODS)				3,913					
NONPROCESSING RECORDS (Test, calibration, etc)				21					
2-SEC SORT DETECTORS									
1 DET		2,202	72.4%	5 DET	10	0.3%			
2 DET		661	21.7%	6 DET	0	0.0%			
3 DET		134	4.4%	7 DET	0	0.0%			
4 DET		34	1.1%	8 DET	0	0.0%			
AVERAGE TIME BETWEEN 2-SEC SORTS				7.9 sec					
FREQUENCY DISTRIBUTIONS									
1-GATE SORTS			ACT_ND	NUM	SPEC_A	FREQ%	ACT_P	NUM	FREQ%
DET	SORTS	FREQ%	(Bq)	(#)	(Bq/kg)		(kBq)	(#)	
1	82	5.3%	-14000	8	-250	3.5%	4	437	14.4%
2	308	20.1%	-12000	6	-215	2.7%	8	1,545	50.8%
3	285	18.6%	-10000	13	-179	5.8%	12	475	15.6%
4	324	21.1%	-8000	4	-143	1.8%	16	179	5.9%
5	254	16.6%	-6000	4	-107	1.8%	20	80	2.6%
6	171	11.2%	-4000	1	-72	0.4%	24	59	1.9%
7	94	6.1%	-2000	0	-36	0.0%	28	52	1.7%
8	15	1.0%	0	0	0	0.0%	32	36	1.2%
TOTAL	1,533		2000	1	36	0.4%	36	18	0.6%
			4000	1	72	0.4%	40	18	0.6%
			6000	0	107	0.0%	44	18	0.6%
2-GATE SORTS			8000	1	143	0.4%	48	12	0.4%
DET	SORTS	FREQ%	10000	4	179	1.8%	52	14	0.5%
9	209	13.9%	12000	11	215	4.9%	56	8	0.3%
10	308	20.4%	14000	25	250	11.1%	60	11	0.4%
11	339	22.5%	16000	48	286	21.2%	64	2	0.1%
12	268	17.8%	18000	61	322	27.0%	68	5	0.2%
13	223	14.8%	20000	38	358	16.8%	72	6	0.2%
14	127	8.4%	22000	0	394	0.0%	76	4	0.1%
15	34	2.3%	24000	0	429	0.0%	80	4	0.1%
TOTAL	1,508		26000	0	465	0.0%	84	4	0.1%
			>28000	0	0	0.0%	>84	54	1.8%
			TOTAL	226			TOTAL	3,041	
EVENT TYPES		HPE	3,023	MPE	3,806	DISE	47,933		

SORTER 2



WORK HISTORY - JA SOIL CLEANUP PLANT

13-Apr-94

WORK DAY START	06:00 AM	WORK DAY END	16:30 PM
LUNCH START	11:00 AM	TIME LOST DURING LUNCH	0.0 HR

	SORTER 1	SORTER 2	SORTER 3	SORTER 4	TOTAL (sorter hours)
WORK HOURS	10.5 hr	10.5 hr	10.5 hr	10.5 hr	42.0 hr
SORTER AVAILABLE HOURS	10.3 hr	10.3 hr	0.0 hr	0.0 hr	20.5 hr
SORTER START-UP	06:00	06:00	NA	NA	
START SOIL PROCESSING	06:42	06:43	NA	NA	
TIME REQUIRED TO START-UP	0.7 hr	0.7 hr	0.0 hr	0.0 hr	1.4 hr
SORTER SHUT-DOWN	16:15	16:15	NA	NA	
END SOIL PROCESSING	16:00	16:00	NA	NA	
TIME REQUIRED TO SHUT DOWN	0.2 hr	0.2 hr	0.0 hr	0.0 hr	0.5 hr
ACTUAL PROCESS HOURS	7.8 hr	7.8 hr	0.0 hr	0.0 hr	15.5 hr
DOWN-TIME	2.5 hr	2.5 hr	0.0 hr	0.0 hr	5.0 hr
SYSTEM PAUSE	1.5 hr	1.6 hr	0.0 hr	0.0 hr	3.1 hr
SORTER NONAVAILABLE TIME	0.2 hr	0.2 hr	10.0 hr	10.0 hr	20.5 hr
AUTHORIZED DELAY TIME	1.4 hr	1.4 hr	10.0 hr	10.0 hr	22.8 hr
PLANT PERFORMANCE					75.7%
PRODUCTIVITY					37.0%

PRODUCTIVITY

Date	13-Apr-94	Excused Delays for day (sorter-hrs)	22.8 hr
Contract day (from 6 Sep)	177	Excused delays for contract (sorter-hrs)	2,945 hr
Current Contract week	30	Excused delay days (plant-days)	74 days
		Excused delay months (plant-month)	2.83 months
Soil production for Day	156 MT		
Cumulative Soil Production for Week	388 MT	Percent of contract completed	39.8%
Total Soil production for contract		Tons Ahead or Behind Schedule	1,689 MT
Since 6 Sep 93	38,224 MT	Days ahead or behind schedule	5 days
Since 6 Aug 93	39,815 MT		
Total Soil production for project	66,102 MT		

MT = metric tons

SORTER 1

13-Apr-94

SORTER SOIL DENSITY		1.20 tons/m ³	BACKGROUND		0.66 ± 0.03 c/s
SOIL	CONTAMINATED		CLEAN	TOTAL	
MASS TOTAL	9.1 tons		69.1 tons	78.2 tons	
MAXIMUM/SORT	58.1 kg		55.9 kg		
MINIMUM/SORT	0.7 kg		46.1 kg		
VOLUME IN-GROUND	7.2 yd ³		54.8 yd ³	62.0 yd ³	
WEIGHT RECOVERY (CLEAN/(HOT+CLEAN))		88.4%			

ACTIVITY

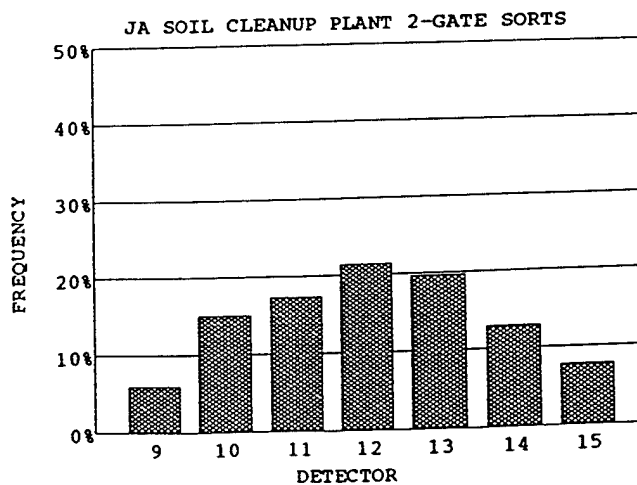
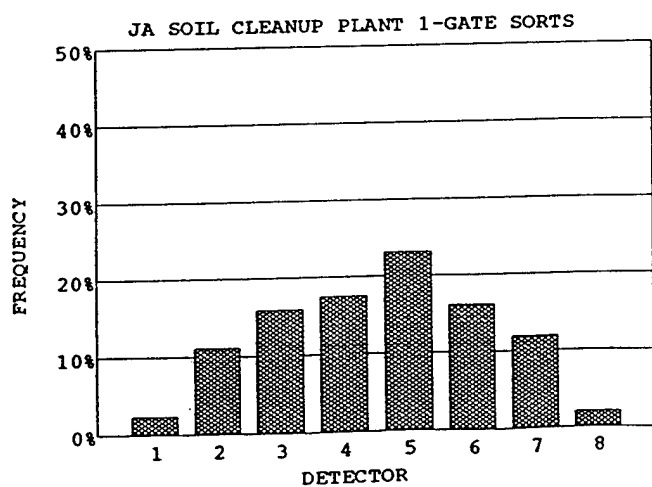
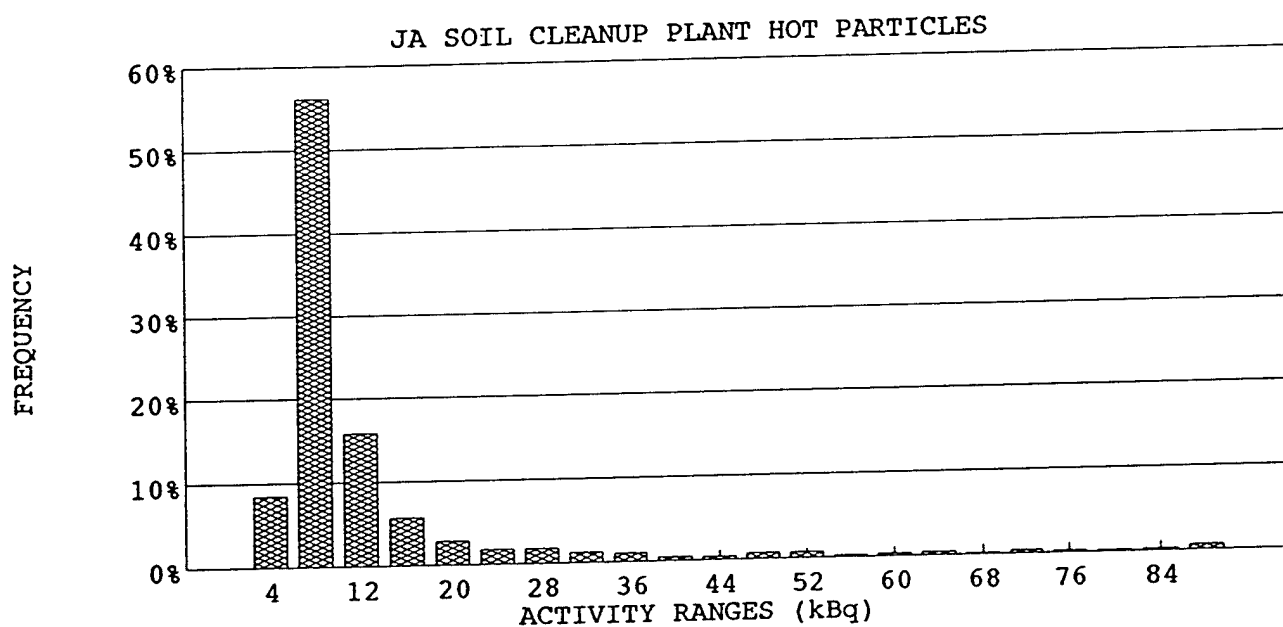
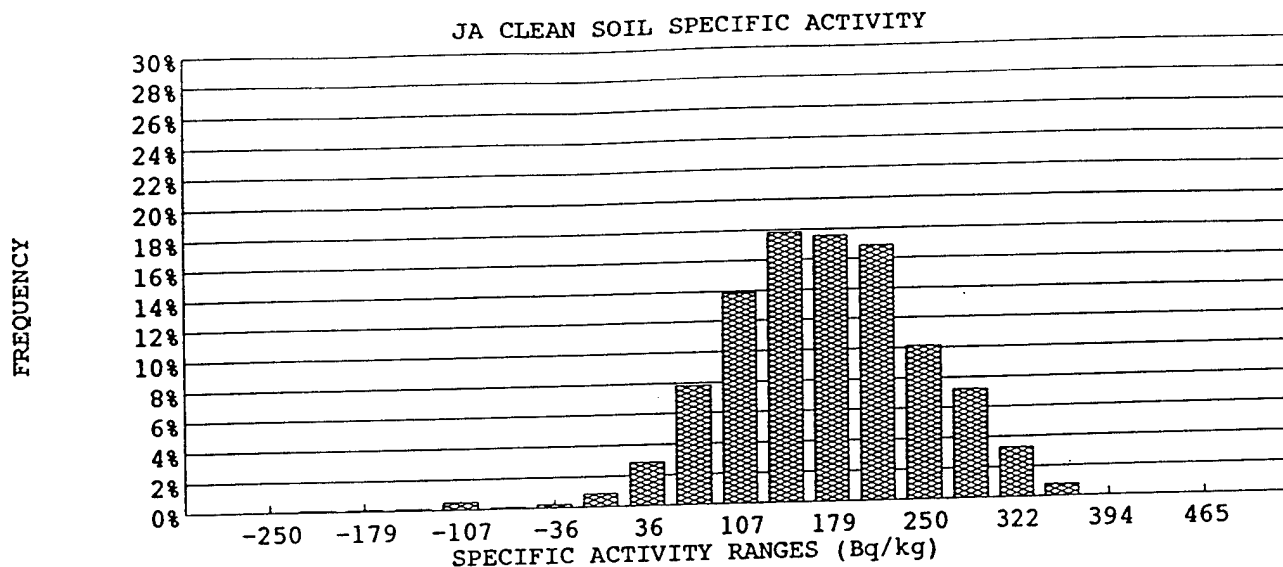
	DISPERSED + PARTICLE		
	PARTICLE	HOT	CLEAN
TOTAL	13,250 kBq	11,002 kBq	10,968 kBq
MAXIMUM/SORT	186 kBq	191 kBq	19 kBq
MINIMUM/SORT	2 kBq	(3,795)Bq	-11 kBq
SPECIFIC ACTIVITY		1,213 Bq/kg	159 Bq/kg

SORTS

20-SEC PROCESS PERIODS				1,398	UNEXP	PAUSE
					TIME	TIME
ALL 80 ELEMENTS SORT (MD>0&MND=0)				136		
NONE (AD=0 & MD=0 & MND>0)				370	07:34	11:17
SOME (AD>0&0<MD<MNDmax&MND<MNDmax)				892	09:44	11:36
UNEXPLAINED RECORDS				0	11:36	11:45
0<AD<1kBq & MD>0				2		12:57
AD=0 & MD>0				0		
AD<0 & MD >0				1		
2-SEC COUNT PERIODS				13,980		
2-SEC RECORDS WITH SORTS				1,180		
2-SEC RECORDS WITHOUT SORTS				12,800		
TOTAL PROCESS RECORDS (2-s SORTS and 20-s PERIODS)				2,578		
NONPROCESSING RECORDS (Test, calibration, etc)				2		
2-SEC SORT DETECTORS						
1 DET	899	76.2%	5 DET	2	0.2%	
2 DET	238	20.2%	6 DET	0	0.0%	
3 DET	35	3.0%	7 DET	0	0.0%	
4 DET	6	0.5%	8 DET	0	0.0%	
AVERAGE TIME BETWEEN 2-SEC SORTS				31.1 sec		

FREQUENCY DISTRIBUTIONS

1-GATES SORTS			ACT_ND	NUM	SPEC_A	FREQ%	ACT_P	NUM	FREQ%
DET	SORTS	FREQ%	(Bq)	(#)	(Bq/kg)		(kBq)	(#)	
1	14	2.3%	-14000	0	-250	0.0%	4	100	8.5%
2	66	11.1%	-12000	1	-215	0.1%	8	662	56.1%
3	95	15.9%	-10000	1	-179	0.1%	12	187	15.8%
4	104	17.4%	-8000	1	-143	0.1%	16	67	5.7%
5	138	23.2%	-6000	6	-107	0.5%	20	34	2.9%
6	96	16.1%	-4000	1	-72	0.1%	24	21	1.8%
7	71	11.9%	-2000	3	-36	0.2%	28	21	1.8%
8	12	2.0%	0	11	0	0.9%	32	15	1.3%
TOTAL			2000	36	36	2.8%	36	12	1.0%
			4000	99	72	7.8%	40	6	0.5%
2-GATES SORTS			6000	175	107	13.8%	44	5	0.4%
DET	SORTS	FREQ%	8000	225	143	17.8%	48	8	0.7%
9	35	6.0%	10000	222	179	17.6%	52	8	0.7%
10	88	15.1%	12000	213	215	16.9%	56	3	0.3%
11	101	17.3%	14000	128	250	10.1%	60	4	0.3%
12	125	21.4%	16000	91	286	7.2%	64	5	0.4%
13	115	19.7%	18000	41	322	3.2%	68	2	0.2%
14	75	12.8%	20000	10	358	0.8%	72	5	0.4%
15	45	7.7%	22000	0	394	0.0%	76	3	0.3%
TOTAL			24000	0	429	0.0%	80	2	0.2%
			26000	0	465	0.0%	84	3	0.3%
			>28000	0	0	0.0%	>84	7	0.6%
			TOTAL	1,264			TOTAL	1,180	
EVENT TYPES			HPE	1,242	MPE	1,793	DISE	9,940	



SORTER 2

13-Apr-94

SORTER SOIL DENSITY		1.20 tons/m ³	BACKGROUND		0.75 ± 0.03 c/s
SOIL		CONTAMINATED	CLEAN	TOTAL	
MASS TOTAL		5.3 tons	72.8 tons	78.1 tons	
MAXIMUM/SORT		58.1 kg	55.9 kg		
MINIMUM/SORT		0.7 kg	47.5 kg		
VOLUME IN-GROUND		4.2 yd ³	57.7 yd ³	61.9 yd ³	
WEIGHT RECOVERY (CLEAN/(HOT+CLEAN))		93.2%			

ACTIVITY

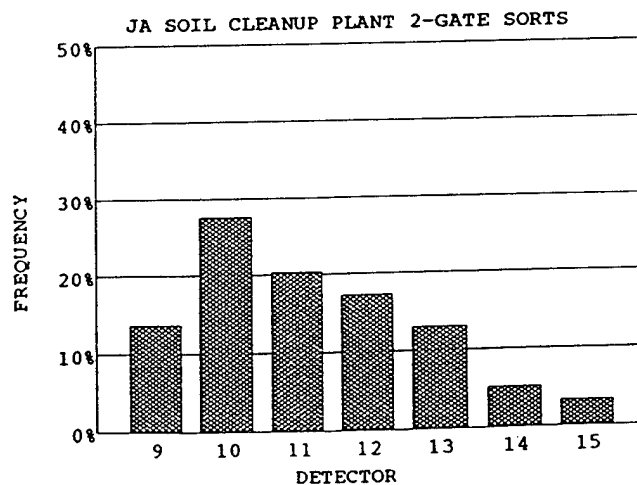
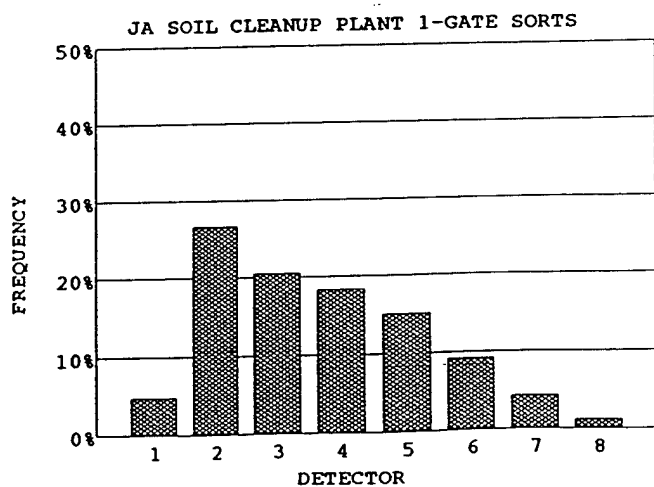
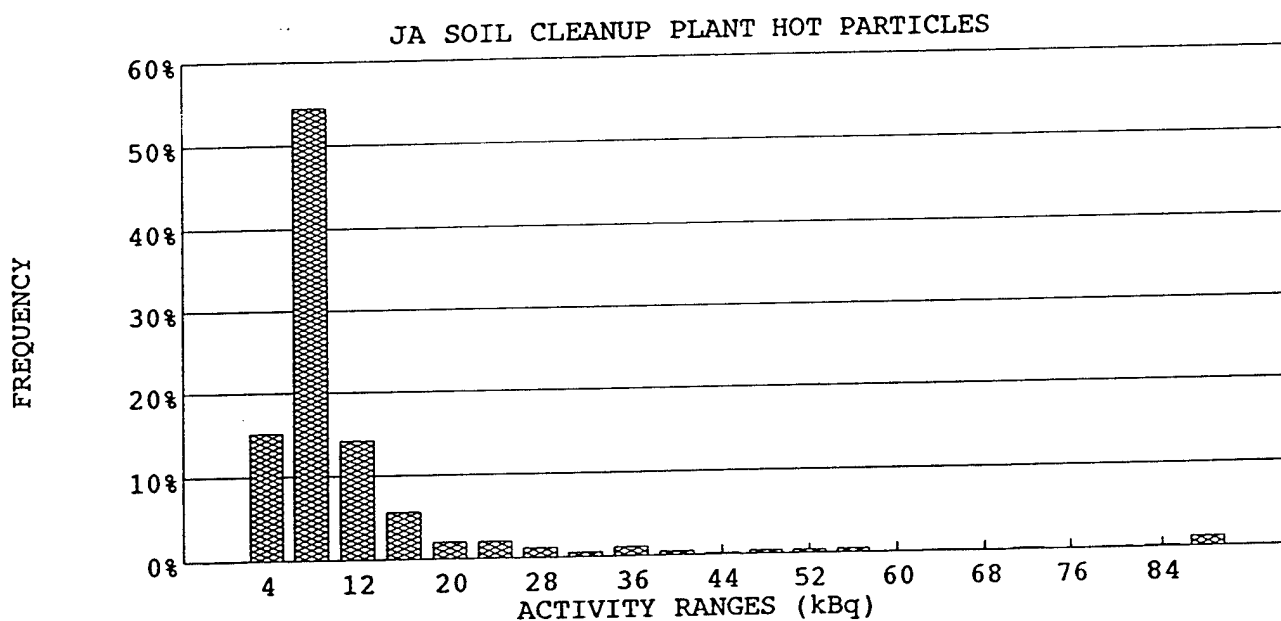
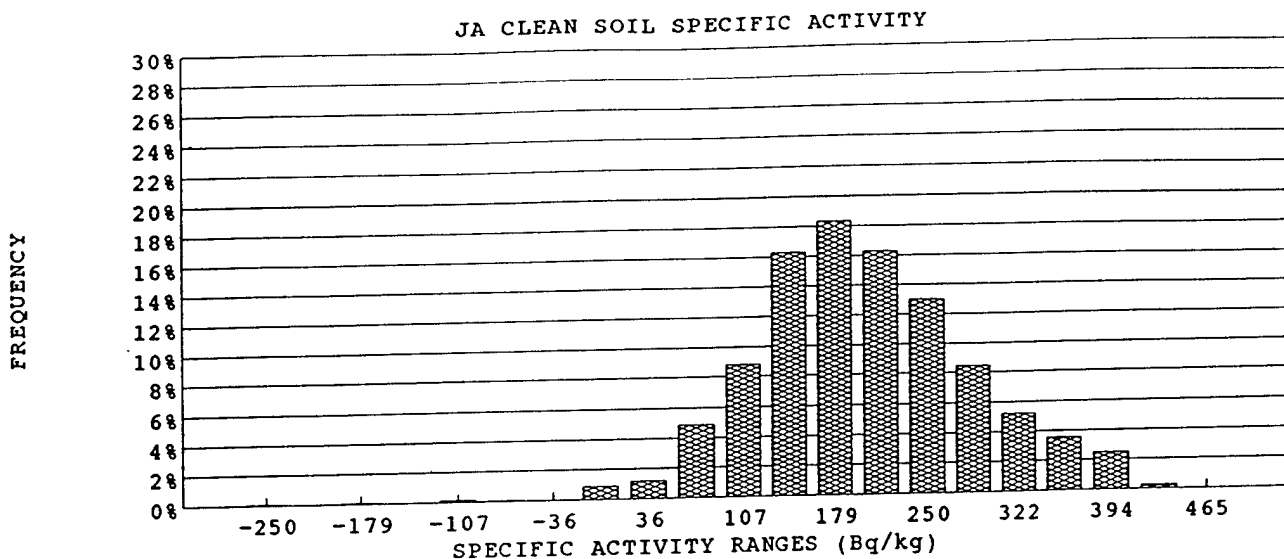
	PARTICLE	DISPERSED + PARTICLE	
		HOT	CLEAN
TOTAL	12,344 kBq	7,712 kBq	13,572 kBq
MAXIMUM/SORT	353 kBq	258 kBq	22 kBq
MINIMUM/SORT	3 kBq	(4,939)Bq	-8 kBq
SPECIFIC ACTIVITY		1,460 Bq/kg	186 Bq/kg

SORTS

		1,397	UNEXP	PAUSE
20-SEC PROCESS PERIODS			TIME	TIME
ALL 80 ELEMENTS SORT (MD>0&MND=0)	73		07:03	11:16
NONE (AD=0 & MD=0 & MND>0)	594		11:36	11:36
SOME (AD>0&0<MD<MNDmax&MND<MNDmax)	730			11:45
UNEXPLAINED RECORDS	0			12:57
0<AD<1kBq & MD>0	1			
AD=0 & MD>0	0			
AD<0 & MD>0	1			
2-SEC COUNT PERIODS		13,970		
2-SEC RECORDS WITH SORTS	1,199			
2-SEC RECORDS WITHOUT SORTS	12,771			
TOTAL PROCESS RECORDS (2-s SORTS and 20-s PERIODS)		2,596		
NONPROCESSING RECORDS (Test, calibration, etc)		2		
2-SEC SORT DETECTORS				
1 DET	940 78.4%	5 DET	2	0.2%
2 DET	220 18.3%	6 DET	0	0.0%
3 DET	32 2.7%	7 DET	0	0.0%
4 DET	5 0.4%	8 DET	0	0.0%
AVERAGE TIME BETWEEN 2-SEC SORTS	29.7 sec			

FREQUENCY DISTRIBUTIONS

1-GATE SORTS			ACT_ND	NUM	SPEC_A	FREQ%	ACT_P	NUM	FREQ%
DET	SORTS	FREQ%	(Bq)	(#)	(Bq/kg)		(kBq)	(#)	
1	28	4.8%	-14000	1	-250	0.1%	4	181	15.1%
2	157	26.7%	-12000	0	-215	0.0%	8	654	54.5%
3	121	20.5%	-10000	1	-179	0.1%	12	170	14.2%
4	108	18.3%	-8000	0	-143	0.0%	16	68	5.7%
5	89	15.1%	-6000	2	-107	0.2%	20	24	2.0%
6	54	9.2%	-4000	1	-72	0.1%	24	24	2.0%
7	25	4.2%	-2000	0	-36	0.0%	28	14	1.2%
8	7	1.2%	0	12	0	0.9%	32	7	0.6%
TOTAL	589		2000	16	36	1.2%	36	13	1.1%
			4000	64	72	4.8%	40	6	0.5%
			6000	117	107	8.8%	44	2	0.2%
2-GATE SORTS			8000	216	143	16.3%	48	5	0.4%
DET	SORTS	FREQ%	10000	243	179	18.3%	52	5	0.4%
9	83	13.6%	12000	216	215	16.3%	56	6	0.5%
10	168	27.5%	14000	172	250	13.0%	60	0	0.0%
11	124	20.3%	16000	112	286	8.4%	64	1	0.1%
12	105	17.2%	18000	69	322	5.2%	68	0	0.0%
13	79	13.0%	20000	47	358	3.5%	72	2	0.2%
14	31	5.1%	22000	33	394	2.5%	76	0	0.0%
15	20	3.3%	24000	4	429	0.3%	80	1	0.1%
TOTAL	610		26000	0	465	0.0%	84	2	0.2%
			>28000	0	0	0.0%	>84	14	1.2%
			TOTAL	1,326			TOTAL	1,199	
EVENT TYPES	HPE	1,321	MPE	805	DISE	5,429			



WORK HISTORY - JA SOIL CLEANUP PLANT

14-Apr-94

WORK DAY START	06:00 AM	WORK DAY END	16:30 PM
LUNCH START	11:00 AM	TIME LOST DURING LUNCH	0.5 HR

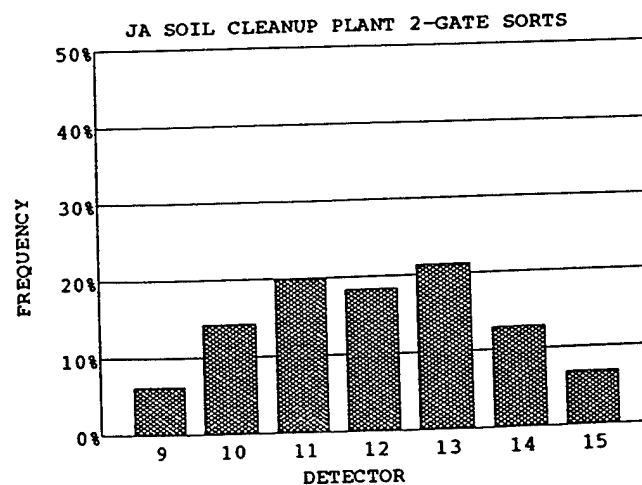
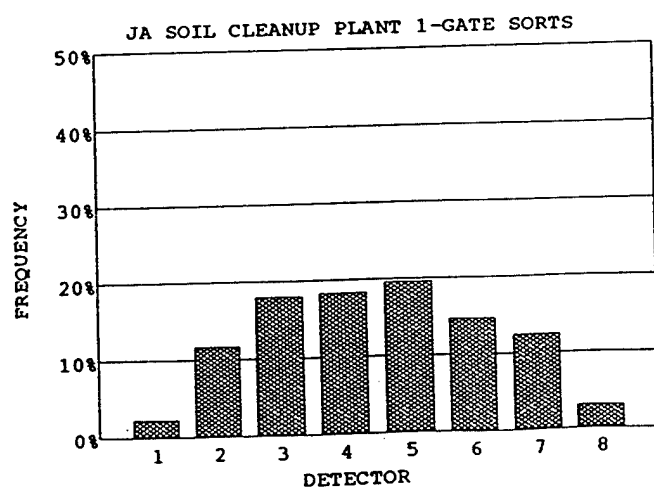
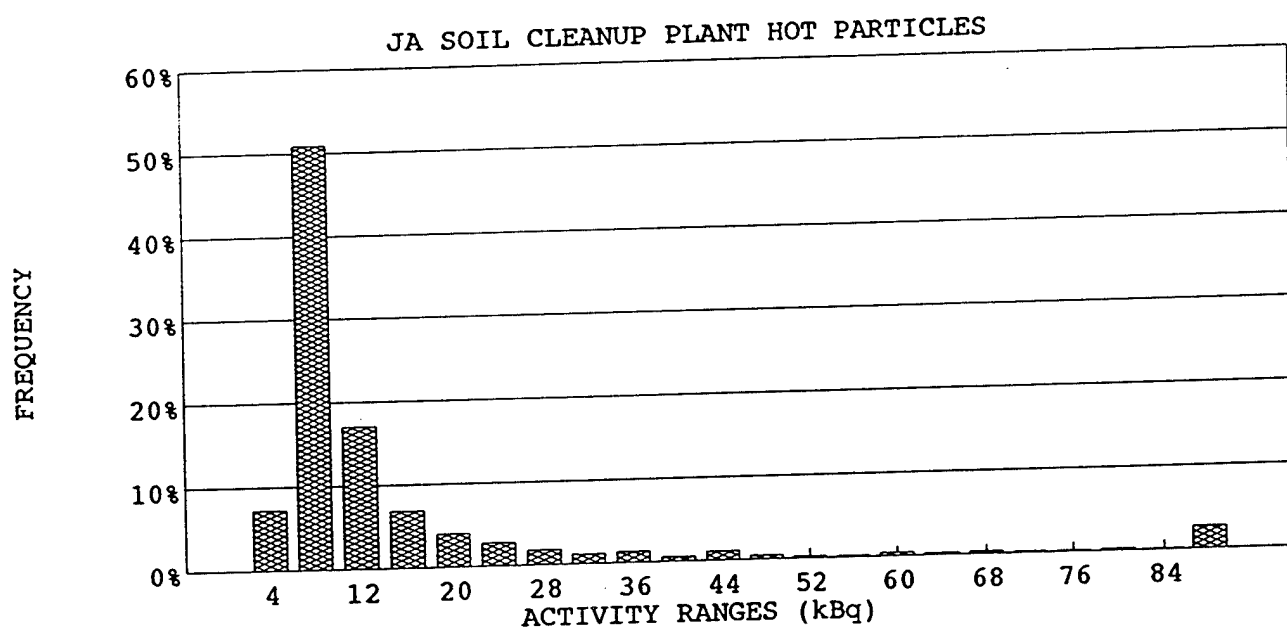
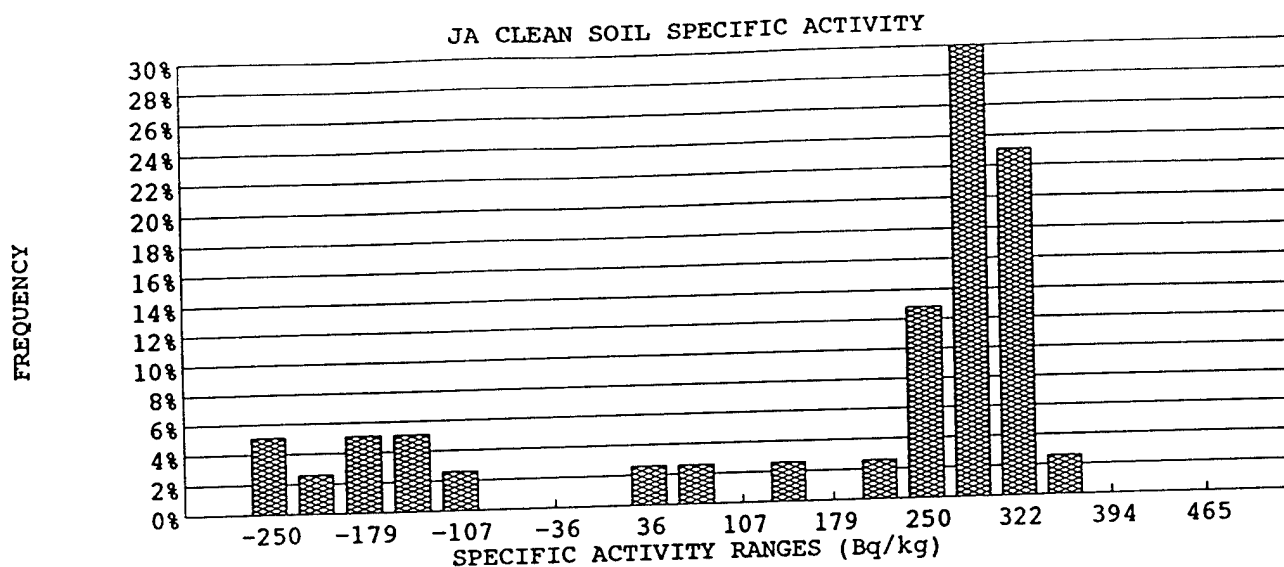
	SORTER 1	SORTER 2	SORTER 3	SORTER 4	TOTAL (sorter hours)
WORK HOURS	10.0 hr	10.0 hr	10.0 hr	10.0 hr	40.0 hr
SORTER AVAILABLE HOURS	3.0 hr	3.0 hr	0.0 hr	0.0 hr	6.0 hr
SORTER START-UP	06:00	06:00	NA	NA	
START SOIL PROCESSING	06:17	06:16	NA	NA	
TIME REQUIRED TO START-UP	0.3 hr	0.3 hr	0.0 hr	0.0 hr	0.6 hr
SORTER SHUT-DOWN	09:00	09:00	NA	NA	
END SOIL PROCESSING	08:45	08:45	NA	NA	
TIME REQUIRED TO SHUT DOWN	0.2 hr	0.2 hr	0.0 hr	0.0 hr	0.5 hr
ACTUAL PROCESS HOURS	2.4 hr	2.4 hr	0.0 hr	0.0 hr	4.8 hr
DOWN-TIME	0.6 hr	0.6 hr	0.0 hr	0.0 hr	1.2 hr
SYSTEM PAUSE	0.1 hr	0.1 hr	0.0 hr	0.0 hr	0.2 hr
SORTER NONAVAILABLE TIME	7.0 hr	7.0 hr	10.0 hr	10.0 hr	34.0 hr
AUTHORIZED DELAY TIME	7.0 hr	7.0 hr	10.0 hr	10.0 hr	34.0 hr
PLANT PERFORMANCE					79.4%
PRODUCTIVITY					11.9%

PRODUCTIVITY

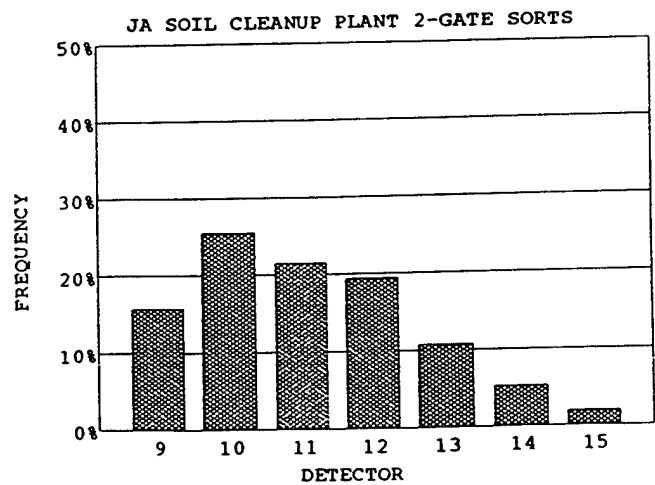
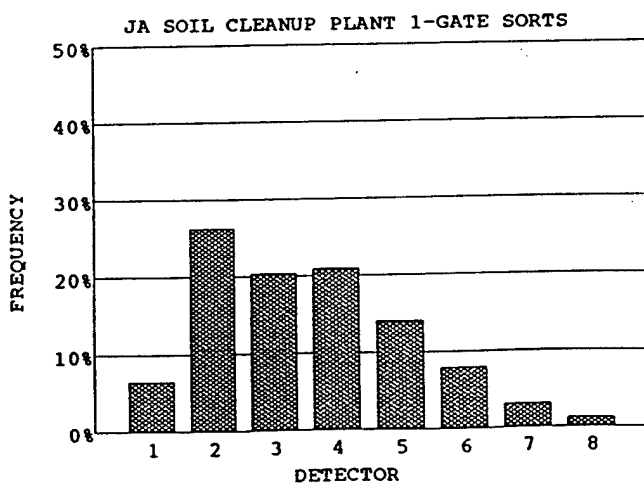
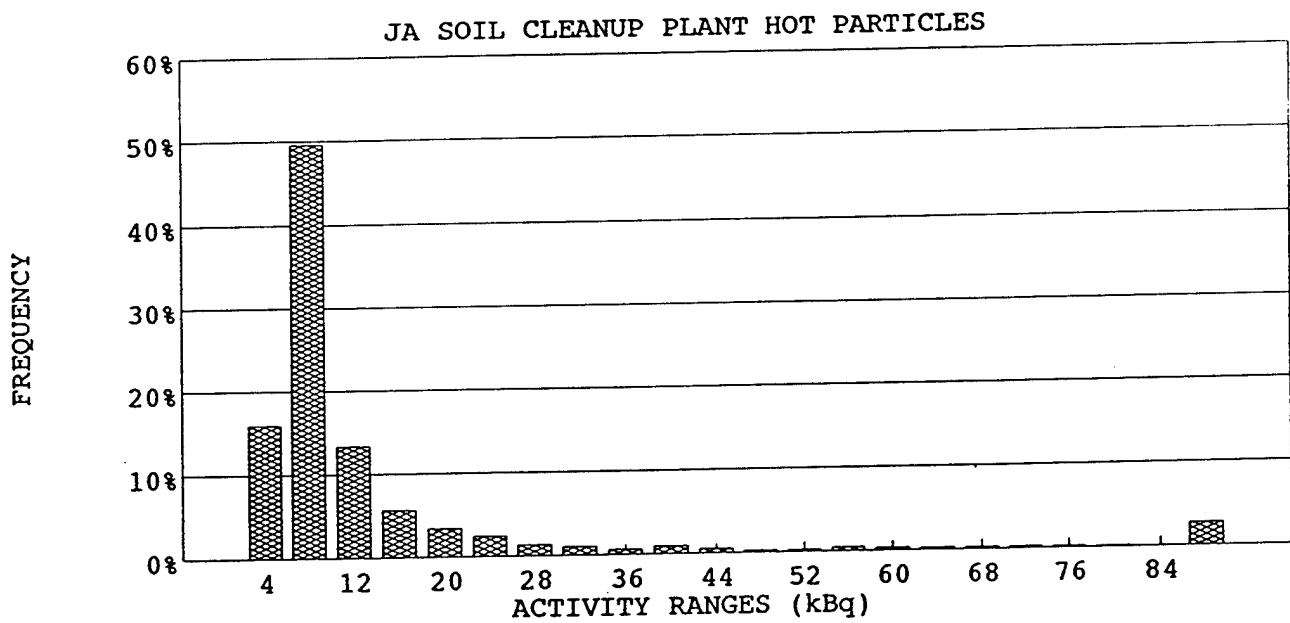
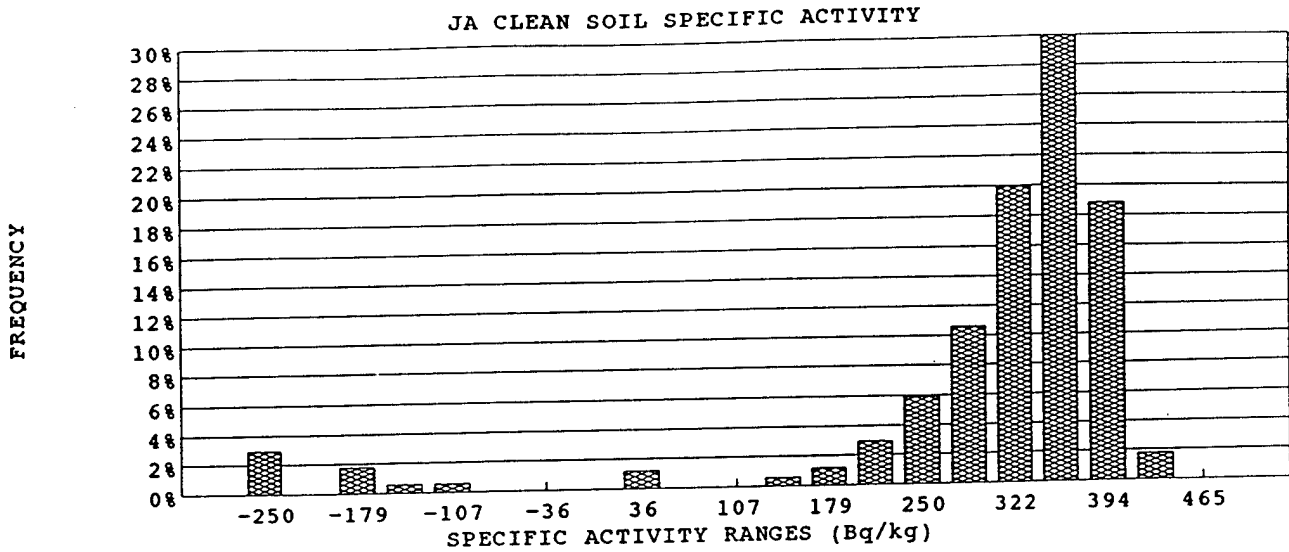
Date	14-Apr-94	Excused Delays for day (sorter-hrs)	34 hr
Contract day (from 6 Sep)	178	Excused delays for contract (sorter-hrs)	2,979 hr
Current Contract week	30	Excused delay days (plant-days)	74 days
		Excused delay months (plant-month)	2.86 months
Soil production for Day	48 MT		
Cumulative Soil Production for Week	436 MT	Percent of contract completed	39.9%
Total Soil production for contract		Tons Ahead or Behind Schedule	1,689 MT
Since 6 Sep 93	38,272 MT	Days ahead or behind schedule	5 days
Since 6 Aug 93	39,863 MT		
Total Soil production for project	66,150 MT		

MT = metric tons

SORTER 1				14-Apr-94					
SORTER SOIL DENSITY			1.20 tons/m ³	BACKGROUND		0.70 ±	0.02 c/s		
SOIL	CONTAMINATED			CLEAN		TOTAL			
MASS TOTAL	22.1 tons			1.7 tons		23.8 tons			
MAXIMUM/SORT	55.9 kg			55.9 kg					
MINIMUM/SORT	0.7 kg			43.3 kg					
VOLUME IN-GROUND	17.5 yd ³			1.4 yd ³		18.9 yd ³			
WEIGHT RECOVERY (CLEAN/(HOT+CLEAN))			7.3%						
ACTIVITY				DISPERSED + PARTICLE					
				PARTICLE	HOT	CLEAN			
TOTAL	56,553 kBq			33,847 kBq	411 kBq				
MAXIMUM/SORT	11,339 kBq			7,795 kBq	18 kBq				
MINIMUM/SORT	2 kBq			0 Bq	-13 kBq				
SPECIFIC ACTIVITY				1,533 Bq/kg	238 Bq/kg				
SORTS									
20-SEC PROCESS PERIODS				426		UNEXP	PAUSE		
ALL 80 ELEMENTS SORT (MD>0&MND=0)				392		TIME	TIME		
NONE (AD=0 & MD=0 & MND>0)				1		None	07:14		
SOME (AD>0&0<MD<MNDmax&MND<MNDmax)				33					
UNEXPLAINED RECORDS				0					
0<AD<1kBq & MD>0				0					
AD=0 & MD>0				0					
AD<0 & MD >0				0					
2-SEC COUNT PERIODS				4,260					
2-SEC RECORDS WITH SORTS				1,929					
2-SEC RECORDS WITHOUT SORTS				2,331					
TOTAL PROCESS RECORDS (2-s SORTS and 20-s PERIODS)				2,355					
NONPROCESSING RECORDS (Test, calibration, etc)				5					
2-SEC SORT DETECTORS									
1 DET	1,370	71.0%	5 DET	2	0.1%				
2 DET	436	22.6%	6 DET	0	0.0%				
3 DET	102	5.3%	7 DET	0	0.0%				
4 DET	19	1.0%	8 DET	0	0.0%				
AVERAGE TIME BETWEEN 2-SEC SORTS				6.2 sec					
FREQUENCY DISTRIBUTIONS									
1-GATE SORTS			ACT_ND	NUM	SPEC_A	FREQ%	ACT_P	NUM	FREQ%
DET	SORTS	FREQ%	(Bq)	(#)	(Bq/kg)		(kBq)	(#)	
1	22	2.2%	-14000	2	-250	5.1%	4	140	7.3%
2	116	11.7%	-12000	1	-215	2.6%	8	982	50.9%
3	178	18.0%	-10000	2	-179	5.1%	12	328	17.0%
4	182	18.4%	-8000	2	-143	5.1%	16	132	6.8%
5	194	19.6%	-6000	1	-107	2.6%	20	77	4.0%
6	146	14.7%	-4000	0	-72	0.0%	24	54	2.8%
7	123	12.4%	-2000	0	-36	0.0%	28	34	1.8%
8	30	3.0%	0	0	0	0.0%	32	23	1.2%
TOTAL	991		2000	1	36	2.6%	36	26	1.3%
			4000	1	72	2.6%	40	11	0.6%
			6000	0	107	0.0%	44	21	1.1%
2-GATE SORTS			8000	1	143	2.6%	48	9	0.5%
DET	SORTS	FREQ%	10000	0	179	0.0%	52	5	0.3%
9	58	6.2%	12000	1	215	2.6%	56	3	0.2%
10	134	14.3%	14000	5	250	12.8%	60	7	0.4%
11	188	20.0%	16000	12	286	30.8%	64	5	0.3%
12	173	18.4%	18000	9	322	23.1%	68	6	0.3%
13	200	21.3%	20000	1	358	2.6%	72	4	0.2%
14	121	12.9%	22000	0	394	0.0%	76	3	0.2%
15	64	6.8%	24000	0	429	0.0%	80	5	0.3%
TOTAL	938		26000	0	465	0.0%	84	2	0.1%
			>28000	0	0	0.0%	>84	52	2.7%
			TOTAL	39			TOTAL	1,929	
EVENT TYPES		HPE	1,825	MPE	2,657	DISE	27,124		



SORTER 2				14-Apr-94					
SORTER SOIL DENSITY		1.20 tons/m ³		BACKGROUND		0.82 ± 0.05 c/s			
SOIL		CONTAMINATED		CLEAN		TOTAL			
MASS TOTAL		15.4 tons		8.7 tons		24.1 tons			
MAXIMUM/SORT		55.9 kg		55.9 kg					
MINIMUM/SORT		0.7 kg		41.2 kg					
VOLUME IN-GROUND		12.2 yd ³		6.9 yd ³		19.1 yd ³			
WEIGHT RECOVERY (CLEAN/(HOT+CLEAN))		36.2%							
ACTIVITY		PARTICLE		DISPERSED + PARTICLE					
TOTAL		28,995 kBq		HOT		CLEAN			
MAXIMUM/SORT		1,064 kBq		19,147 kBq		2,685 kBq			
MINIMUM/SORT		2 kBq		612 kBq		23 kBq			
SPECIFIC ACTIVITY				0 Bq		-17 kBq			
				1,246 Bq/kg		308 Bq/kg			
SORTS									
20-SEC PROCESS PERIODS				431					
ALL 80 ELEMENTS SORT (MD>0&MND=0)				262					
NONE (AD=0 & MD=0 & MND>0)				13					
SOME (AD>0&0<MD<MNDmax&MND<MNDmax)				156					
UNEXPLAINED RECORDS				0					
0<AD<1kBq & MD>0				0					
AD=0 & MD>0				0					
AD<0 & MD >0				0					
2-SEC COUNT PERIODS				4,310					
2-SEC RECORDS WITH SORTS				1,739					
2-SEC RECORDS WITHOUT SORTS				2,571					
TOTAL PROCESS RECORDS (2-s SORTS and 20-s PERIODS)				2,170					
NONPROCESSING RECORDS (Test, calibration, etc)				1					
2-SEC SORT DETECTORS									
1 DET		1,266	72.8%	5 DET		2	0.1%		
2 DET		365	21.0%	6 DET		0	0.0%		
3 DET		91	5.2%	7 DET		0	0.0%		
4 DET		15	0.9%	8 DET		0	0.0%		
AVERAGE TIME BETWEEN 2-SEC SORTS				6.8 sec					
FREQUENCY DISTRIBUTIONS									
1-GATE SORTS		ACT_ND	NUM	SPEC_A	FREQ%	ACT_P	NUM	FREQ%	
DET	SORTS	FREQ%	(Bq)	(#)	(Bq/kg)	(kBq)	(#)		
1	55	6.4%	-14000	5	-250	2.9%	4	276	15.9%
2	224	26.2%	-12000	0	-215	0.0%	8	862	49.6%
3	174	20.4%	-10000	3	-179	1.8%	12	232	13.3%
4	179	20.9%	-8000	1	-143	0.6%	16	98	5.6%
5	120	14.0%	-6000	1	-107	0.6%	20	59	3.4%
6	67	7.8%	-4000	0	-72	0.0%	24	42	2.4%
7	26	3.0%	-2000	0	-36	0.0%	28	24	1.4%
8	10	1.2%	0	0	0	0.0%	32	18	1.0%
TOTAL	855		2000	2	36	1.2%	36	11	0.6%
			4000	0	72	0.0%	40	16	0.9%
			6000	0	107	0.0%	44	10	0.6%
2-GATE SORTS			8000	1	143	0.6%	48	5	0.3%
DET	SORTS	FREQ%	10000	2	179	1.2%	52	5	0.3%
9	139	15.7%	12000	5	215	2.9%	56	8	0.5%
10	225	25.5%	14000	10	250	5.9%	60	6	0.3%
11	190	21.5%	16000	18	286	10.6%	64	4	0.2%
12	172	19.5%	18000	34	322	20.0%	68	5	0.3%
13	95	10.7%	20000	53	358	31.2%	72	4	0.2%
14	46	5.2%	22000	32	394	18.8%	76	3	0.2%
15	17	1.9%	24000	3	429	1.8%	80	2	0.1%
TOTAL	884		26000	0	465	0.0%	84	1	0.1%
			>28000	0	0	0.0%	>84	48	2.8%
			TOTAL	170			TOTAL	1,739	
EVENT TYPES		HPE	1,716	MPE	1,379	DISE	18,899		



WORK HISTORY - JA SOIL CLEANUP PLANT

15-Apr-94

WORK DAY START	06:00 AM	WORK DAY END	16:30 PM
LUNCH START	11:30 AM	TIME LOST DURING LUNCH	0.5 HR

	SORTER 1	SORTER 2	SORTER 3	SORTER 4	TOTAL (sorter hours)
WORK HOURS	10.0 hr	10.0 hr	10.0 hr	10.0 hr	40.0 hr
SORTER AVAILABLE HOURS	4.3 hr	4.3 hr	0.0 hr	0.0 hr	8.7 hr
SORTER START-UP	12:00	12:00	NA	NA	
START SOIL PROCESSING	12:23	12:23	NA	NA	
TIME REQUIRED TO START-UP	0.4 hr	0.4 hr	0.0 hr	0.0 hr	0.8 hr
SORTER SHUT-DOWN	16:20	16:20	NA	NA	
END SOIL PROCESSING	16:06	16:06	NA	NA	
TIME REQUIRED TO SHUT DOWN	0.2 hr	0.2 hr	0.0 hr	0.0 hr	0.5 hr
ACTUAL PROCESS HOURS	3.3 hr	3.2 hr	0.0 hr	0.0 hr	6.4 hr
DOWN-TIME	1.1 hr	1.2 hr	0.0 hr	0.0 hr	2.2 hr
SYSTEM PAUSE	0.4 hr	0.4 hr	0.0 hr	0.0 hr	0.8 hr
SORTER NONAVAILABLE TIME	5.7 hr	5.7 hr	10.0 hr	10.0 hr	31.3 hr
AUTHORIZED DELAY TIME	5.5 hr	5.5 hr	10.0 hr	10.0 hr	31.0 hr
PLANT PERFORMANCE					74.2%
PRODUCTIVITY					16.1%

PRODUCTIVITY

Date	15-Apr-94	Excused Delays for day (sorter-hrs)	31 hr
Contract day (from 6 Sep)	179	Excused delays for contract (sorter-hrs)	3,010 hr
Current Contract week	30	Excused delay days (plant-days)	75 days
		Excused delay months (plant-month)	2.89 months
Soil production for Day	65 MT		
Cumulative Soil Production for Week	500 MT	Percent of contract completed	39.9%
Total Soil production for contract		Tons Ahead or Behind Schedule	1,682 MT
Since 6 Sep 93	38,337 MT	Days ahead or behind schedule	5 days
Since 6 Aug 93	39,928 MT		
Total Soil production for project	66,214 MT		

MT = metric tons

SORTER 1

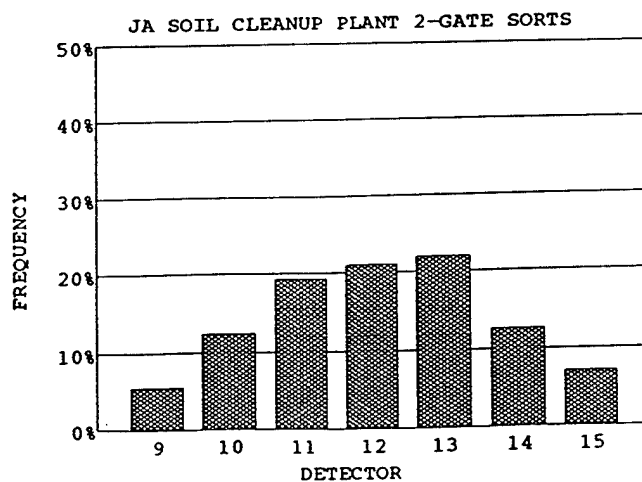
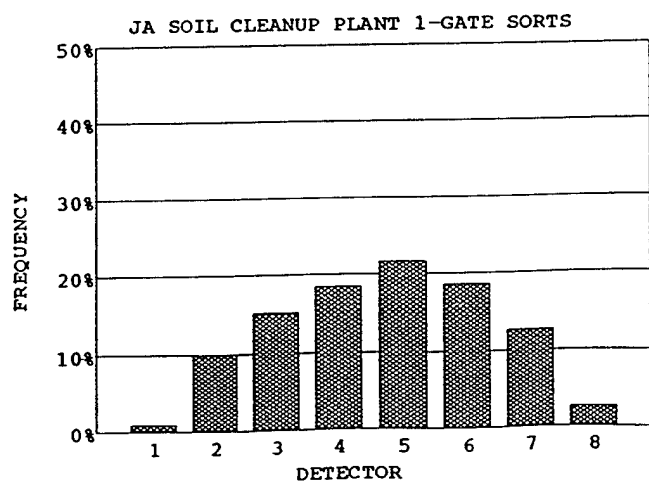
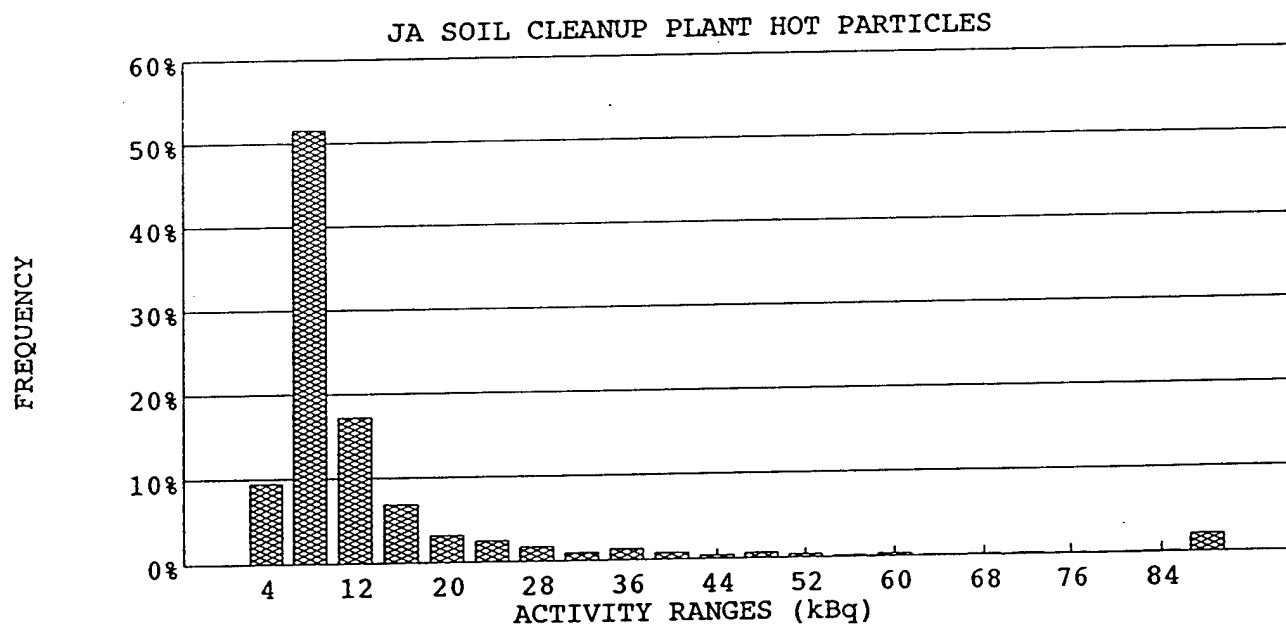
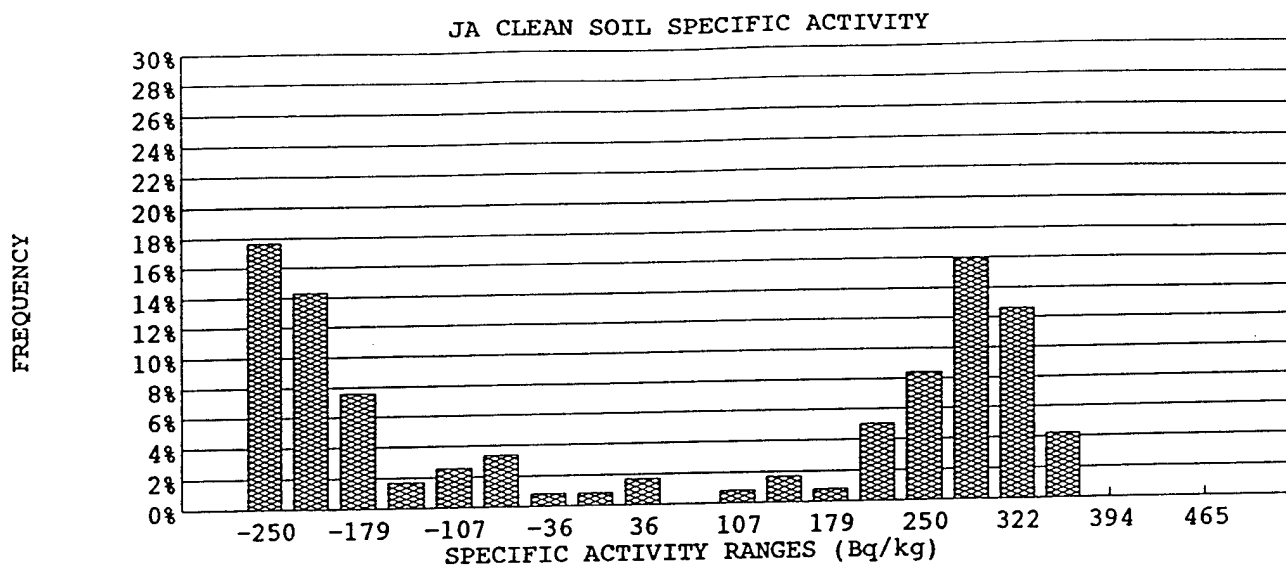
15-Apr-94

SORTER SOIL DENSITY		1.20 tons/m ³	BACKGROUND		0.72 ± 0.05 c/s
SOIL		CONTAMINATED	CLEAN	TOTAL	
MASS TOTAL		27.5 tons	5.2 tons	32.7 tons	
MAXIMUM/SORT		58.1 kg	55.9 kg		
MINIMUM/SORT		0.7 kg	41.9 kg		
VOLUME IN-GROUND		21.8 yd ³	4.1 yd ³	25.9 yd ³	
WEIGHT RECOVERY (CLEAN/(HOT+CLEAN))		15.9%			

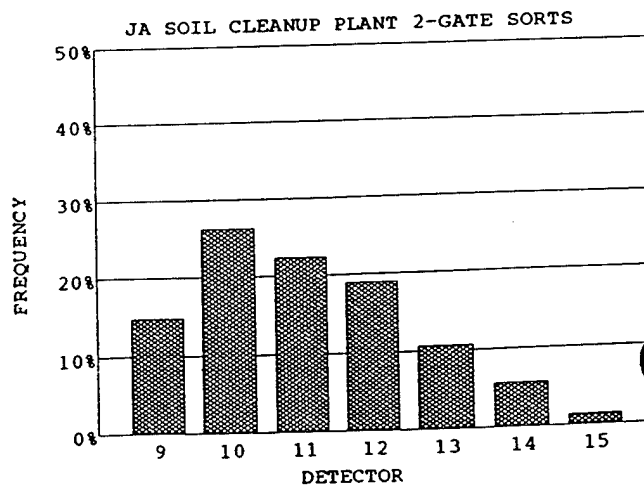
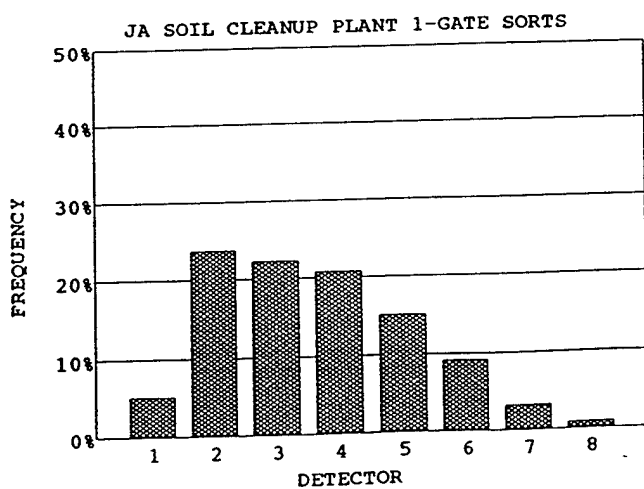
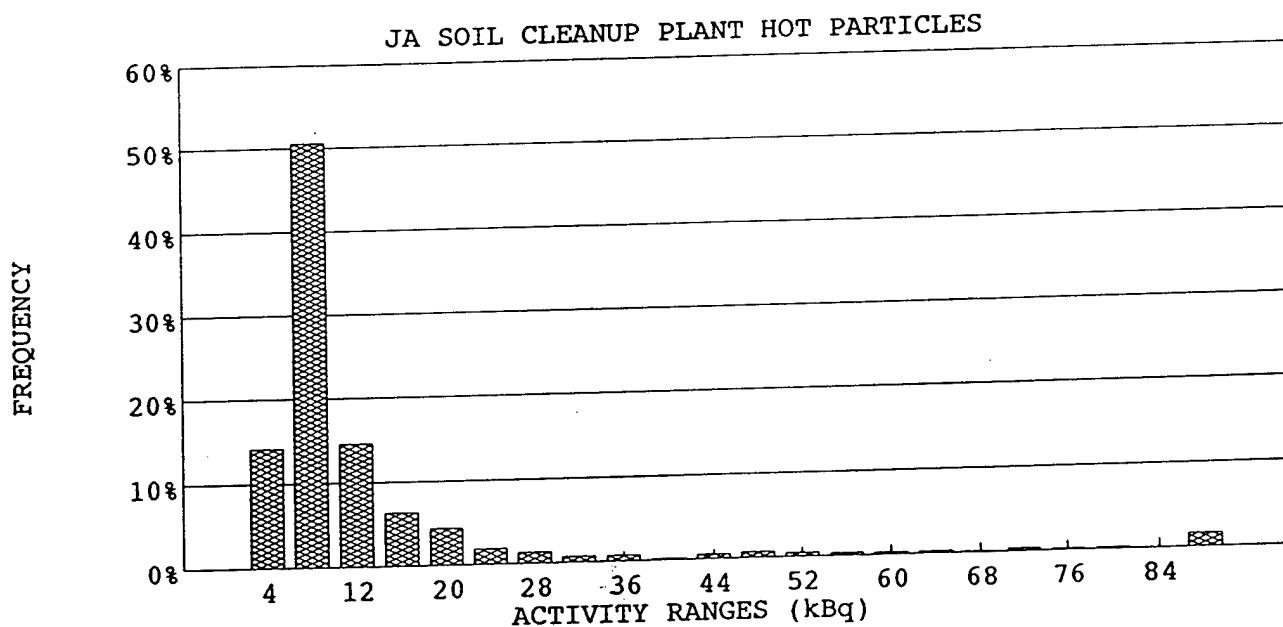
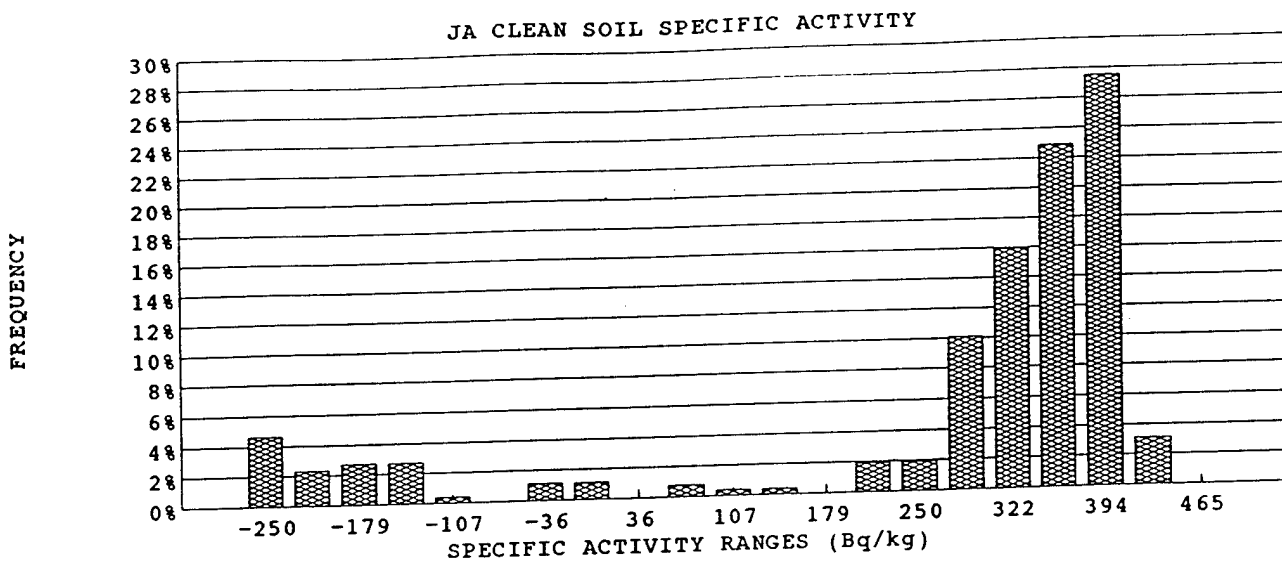
ACTIVITY		DISPERSED + PARTICLE		
		PARTICLE	HOT	CLEAN
TOTAL		33,382 kBq	28,850 kBq	390 kBq
MAXIMUM/SORT		2,233 kBq	1,376 kBq	19 kBq
MINIMUM/SORT		3 kBq	(16,578)Bq	-20 kBq
SPECIFIC ACTIVITY			1,049 Bq/kg	75 Bq/kg

SORTS			585	UNEXP	PAUSE
20-SEC PROCESS PERIODS				TIME	TIME
ALL 80 ELEMENTS SORT (MD>0&MND=0)		486		14:55	13:50
NONE (AD=0 & MD=0 & MND>0)		37			14:36
SOME (AD>0&0<MD<MNDmax&MND<MNDmax)		62			
UNEXPLAINED RECORDS		0			
0<AD<1kBq & MD>0		0			
AD=0 & MD>0		0			
AD<0 & MD >0		1			
2-SEC COUNT PERIODS			5,850		
2-SEC RECORDS WITH SORTS		2,153			
2-SEC RECORDS WITHOUT SORTS		3,697			
TOTAL PROCESS RECORDS (2-s SORTS and 20-s PERIODS)			2,738		
NONPROCESSING RECORDS (Test, calibration, etc)			20		
2-SEC SORT DETECTORS					
1 DET	1,587 73.7%	5 DET	2	0.1%	
2 DET	458 21.3%	6 DET	0	0.0%	
3 DET	94 4.4%	7 DET	0	0.0%	
4 DET	12 0.6%	8 DET	0	0.0%	
AVERAGE TIME BETWEEN 2-SEC SORTS		7.4 sec			

FREQUENCY DISTRIBUTIONS									
1-GATE SORTS			ACT_ND	NUM	SPEC_A	FREQ%	ACT_P	NUM	FREQ%
DET	SORTS	FREQ%	(Bq)	(#)	(Bq/kg)		(kBq)	(#)	
1	10	0.9%	-14000	21	-250	17.6%	4	204	9.5%
2	110	10.0%	-12000	17	-215	14.3%	8	1,110	51.6%
3	168	15.2%	-10000	9	-179	7.6%	12	370	17.2%
4	203	18.4%	-8000	2	-143	1.7%	16	148	6.9%
5	239	21.6%	-6000	3	-107	2.5%	20	69	3.2%
6	205	18.6%	-4000	4	-72	3.4%	24	53	2.5%
7	140	12.7%	-2000	1	-36	0.8%	28	37	1.7%
8	29	2.6%	0	1	0	0.8%	32	20	0.9%
TOTAL	1,104		2000	2	36	1.7%	36	28	1.3%
			4000	0	72	0.0%	40	16	0.7%
			6000	1	107	0.8%	44	8	0.4%
2-GATE SORTS			8000	2	143	1.7%	48	13	0.6%
DET	SORTS	FREQ%	10000	1	179	0.8%	52	8	0.4%
9	58	5.5%	12000	6	215	5.0%	56	4	0.2%
10	131	12.5%	14000	10	250	8.4%	60	7	0.3%
11	202	19.3%	16000	19	286	16.0%	64	2	0.1%
12	221	21.1%	18000	15	322	12.6%	68	4	0.2%
13	230	21.9%	20000	5	358	4.2%	72	4	0.2%
14	132	12.6%	22000	0	394	0.0%	76	1	0.0%
15	75	7.1%	24000	0	429	0.0%	80	0	0.0%
TOTAL	1,049		26000	0	465	0.0%	84	2	0.1%
			>28000	0	0	0.0%	>84	45	2.1%
			TOTAL	119			TOTAL	2,153	
EVENT TYPES		HPE	2,090	MPE	3,048	DISE	34,219		



SORTER 2				15-Apr-94					
SORTER SOIL DENSITY		1.20 tons/m ³		BACKGROUND		0.82 ± 0.05 c/s			
SOIL		CONTAMINATED		CLEAN		TOTAL			
MASS TOTAL		19.6 tons		12.5 tons		32.0 tons			
MAXIMUM/SORT		58.1 kg		55.9 kg					
MINIMUM/SORT		0.7 kg		43.3 kg					
VOLUME IN-GROUND		15.5 yd ³		9.9 yd ³		25.4 yd ³			
WEIGHT RECOVERY (CLEAN/(HOT+CLEAN))		39.0%							
ACTIVITY		PARTICLE		DISPERSED + PARTICLE					
				HOT		CLEAN			
TOTAL		26,799 kBq		20,407 kBq		3,849 kBq			
MAXIMUM/SORT		1,001 kBq		781 kBq		23 kBq			
MINIMUM/SORT		2 kBq		(7,141)Bq		-15 kBq			
SPECIFIC ACTIVITY				1,044 Bq/kg		308 Bq/kg			
SORTS				573		UNEXP PAUSE			
20-SEC PROCESS PERIODS						TIME TIME			
ALL 80 ELEMENTS SORT (MD>0&MND=0)				334					
NONE (AD=0 & MD=0 & MND>0)				20		14:55 13:50			
SOME (AD>0&0<MD<MNDmax&MND<MNDmax)				219		14:36			
UNEXPLAINED RECORDS				0		15:44			
0<AD<1kBq & MD>0				0					
AD=0 & MD>0				0					
AD<0 & MD >0				1					
2-SEC COUNT PERIODS				5,730					
2-SEC RECORDS WITH SORTS				1,901					
2-SEC RECORDS WITHOUT SORTS				3,829					
TOTAL PROCESS RECORDS (2-s SORTS and 20-s PERIODS)				2,474					
NONPROCESSING RECORDS (Test, calibration, etc)				19					
2-SEC SORT DETECTORS									
1 DET		1,406	74.0%	5 DET		2	0.1%		
2 DET		413	21.7%	6 DET		0	0.0%		
3 DET		67	3.5%	7 DET		0	0.0%		
4 DET		13	0.7%	8 DET		0	0.0%		
AVERAGE TIME BETWEEN 2-SEC SORTS				8.2 sec					
FREQUENCY DISTRIBUTIONS									
1-GATE SORTS			ACT_ND	NUM	SPEC_A	FREQ%	ACT_P	NUM	FREQ%
DET	SORTS	FREQ%	(Bq)	(#)	(Bq/kg)		(kBq)	(#)	
1	48	5.1%	-14000	12	-250	4.7%	4	269	14.2%
2	224	23.7%	-12000	6	-215	2.3%	8	961	50.6%
3	210	22.2%	-10000	7	-179	2.7%	12	277	14.6%
4	196	20.8%	-8000	7	-143	2.7%	16	121	6.4%
5	142	15.0%	-6000	1	-107	0.4%	20	84	4.4%
6	86	9.1%	-4000	0	-72	0.0%	24	35	1.8%
7	30	3.2%	-2000	3	-36	1.2%	28	25	1.3%
8	8	0.8%	0	3	0	1.2%	32	14	0.7%
TOTAL	944		2000	0	36	0.0%	36	13	0.7%
			4000	2	72	0.8%	40	3	0.2%
			6000	1	107	0.4%	44	11	0.6%
2-GATE SORTS			8000	1	143	0.4%	48	14	0.7%
9	142	14.8%	10000	0	179	0.0%	52	9	0.5%
10	251	26.2%	12000	5	215	1.9%	56	7	0.4%
11	214	22.4%	14000	5	250	1.9%	60	5	0.3%
12	181	18.9%	16000	26	286	10.1%	64	5	0.3%
13	102	10.7%	18000	41	322	15.9%	68	2	0.1%
14	54	5.6%	20000	59	358	22.9%	72	7	0.4%
15	13	1.4%	22000	71	394	27.5%	76	3	0.2%
TOTAL	957		24000	8	429	3.1%	80	4	0.2%
			26000	0	465	0.0%	84	1	0.1%
			>28000	0	0	0.0%	>84	31	1.6%
			TOTAL	258			TOTAL	1,901	
EVENT TYPES		HPE	1,884	MPE	1,446	DISE	24,647		



WORK HISTORY - JA SOIL CLEANUP PLANT

16-Apr-94

WORK DAY START	05:00 AM	WORK DAY END	15:30 PM
LUNCH START	11:00 AM	TIME LOST DURING LUNCH	0.0 HR

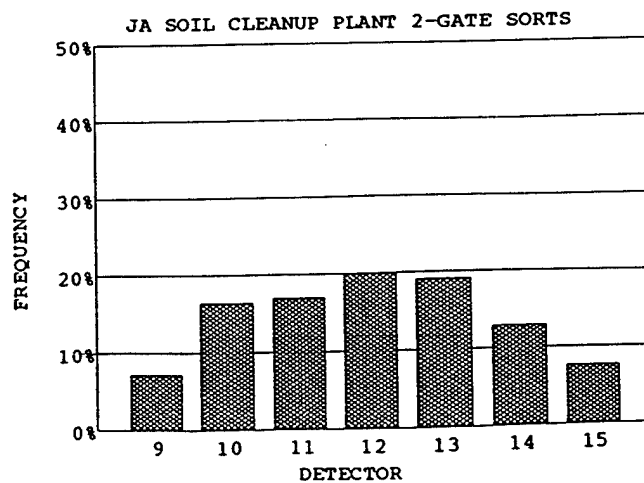
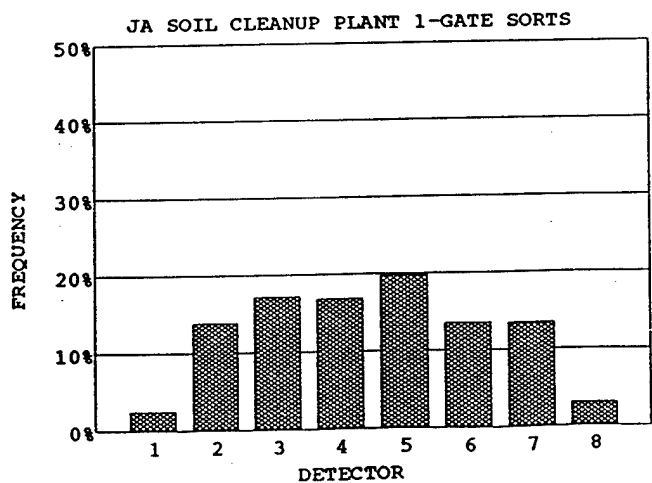
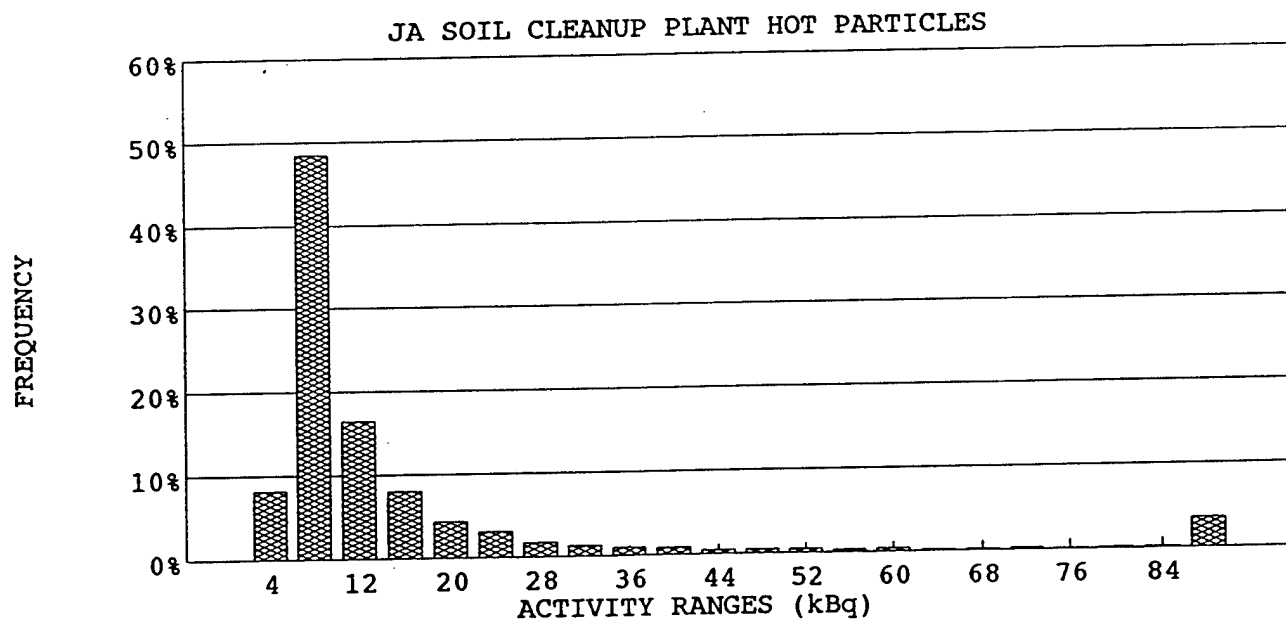
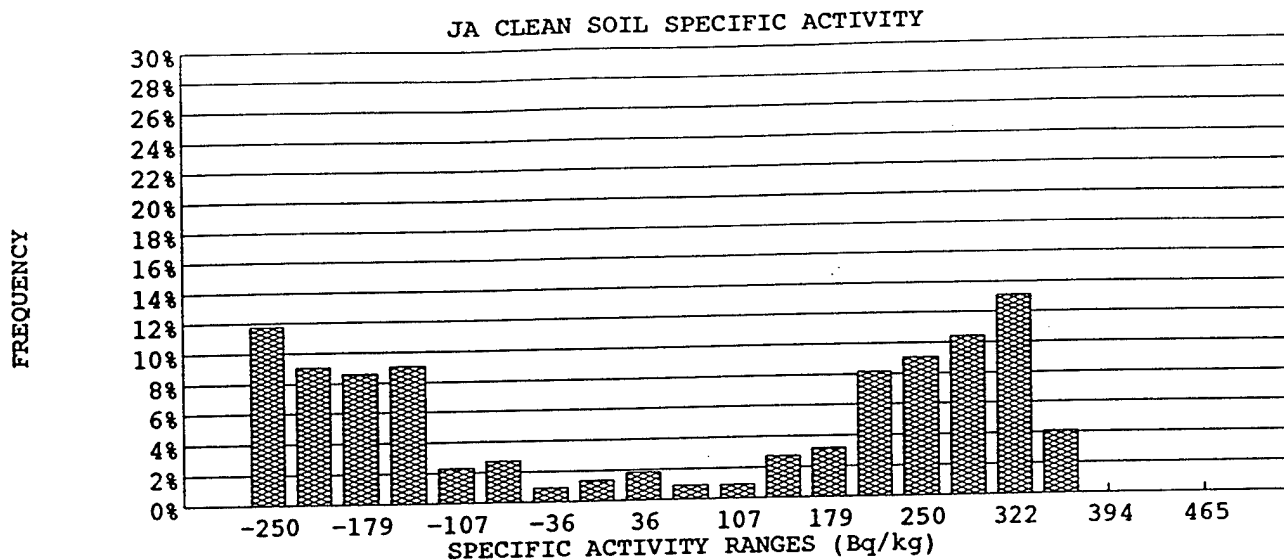
	SORTER 1	SORTER 2	SORTER 3	SORTER 4	TOTAL (sorter hours)
WORK HOURS	10.5 hr	10.5 hr	10.5 hr	10.5 hr	42.0 hr
SORTER AVAILABLE HOURS	8.4 hr	8.4 hr	0.0 hr	0.0 hr	16.8 hr
SORTER START-UP	05:20	05:20	NA	NA	
START SOIL PROCESSING	05:36	05:35	NA	NA	
TIME REQUIRED TO START-UP	0.3 hr	0.3 hr	0.0 hr	0.0 hr	0.5 hr
SORTER SHUT-DOWN	13:45	13:45	NA	NA	
END SOIL PROCESSING	13:34	13:35	NA	NA	
TIME REQUIRED TO SHUT DOWN	0.2 hr	0.2 hr	0.0 hr	0.0 hr	0.3 hr
ACTUAL PROCESS HOURS	7.4 hr	7.4 hr	0.0 hr	0.0 hr	14.9 hr
DOWN-TIME	1.0 hr	1.0 hr	0.0 hr	0.0 hr	2.0 hr
SYSTEM PAUSE	0.6 hr	0.6 hr	0.0 hr	0.0 hr	1.1 hr
SORTER NONAVAILABLE TIME	2.1 hr	2.1 hr	10.0 hr	10.0 hr	24.2 hr
AUTHORIZED DELAY TIME	0.0 hr	0.0 hr	10.0 hr	10.0 hr	20.0 hr
PLANT PERFORMANCE					88.3%
PRODUCTIVITY					35.4%

PRODUCTIVITY

Date	16-Apr-94	Excused Delays for day (sorter-hrs)	20 hr
Contract day (from 6 Sep)	180	Excused delays for contract (sorter-hrs)	3,030 hr
Current Contract week	30	Excused delay days (plant-days)	76 days
		Excused delay months (plant-month)	2.91 months
Soil production for Day	150 MT		
Cumulative Soil Production for Week	650 MT	Percent of contract completed	40.1%
Total Soil production for contract		Tons Ahead or Behind Schedule	1,674 MT
Since 6 Sep 93	38,486 MT	Days ahead or behind schedule	5 days
Since 6 Aug 93	40,077 MT		
Total Soil production for project	66,364 MT		

MT = metric tons

SORTER 1				16-Apr-94					
SORTER SOIL DENSITY			1.20 tons/m³	BACKGROUND		0.69 ±	0.04 c/s		
SOIL		CONTAMINATED		CLEAN		TOTAL			
MASS TOTAL		63.4 tons		11.3 tons		74.7 tons			
MAXIMUM/SORT		58.1 kg		55.9 kg					
MINIMUM/SORT		0.7 kg		42.6 kg					
VOLUME IN-GROUND		50.3 yd³		9.0 yd³		59.2 yd³			
WEIGHT RECOVERY (CLEAN/(HOT+CLEAN))		15.1%							
ACTIVITY		PARTICLE		DISPERSED + PARTICLE					
				HOT		CLEAN			
TOTAL		96,780 kBq		78,842 kBq		613 kBq			
MAXIMUM/SORT		3,944 kBq		2,333 kBq		20 kBq			
MINIMUM/SORT		2 kBq		(29,092)Bq		-20 kBq			
SPECIFIC ACTIVITY				1,243 Bq/kg		54 Bq/kg			
SORTS				1,337		UNEXP	PAUSE		
20-SEC PROCESS PERIODS						TIME	TIME		
ALL 80 ELEMENTS SORT (MD>0&MND=0)				1,130		06:21	06:11		
NONE (AD=0 & MD=0 & MND>0)				100			07:24		
SOME (AD>0&0<MD<MNDmax&MND<MNDmax)				107			08:55		
UNEXPLAINED RECORDS				0			09:37		
0<AD<1kBq & MD>0				0			10:25		
AD=0 & MD>0				0			13:31		
AD<0 & MD >0				1					
2-SEC COUNT PERIODS				13,370					
2-SEC RECORDS WITH SORTS				4,166					
2-SEC RECORDS WITHOUT SORTS				9,204					
TOTAL PROCESS RECORDS (2-s SORTS and 20-s PERIODS)				5,503					
NONPROCESSING RECORDS (Test, calibration, etc)				14					
2-SEC SORT DETECTORS									
1 DET		2,948	70.8%	5 DET	20	0.5%			
2 DET		931	22.3%	6 DET	0	0.0%			
3 DET		212	5.1%	7 DET	2	0.0%			
4 DET		55	1.3%	8 DET	0	0.0%			
AVERAGE TIME BETWEEN 2-SEC SORTS				9.1 sec					
FREQUENCY DISTRIBUTIONS									
1-GATE SORTS			ACT_ND	NUM	SPEC_A	FREQ%	ACT_P	NUM	FREQ%
DET	SORTS	FREQ%	(Bq)	(#)	(Bq/kg)		(kBq)	(#)	
1	51	2.4%	-14000	26	-250	11.8%	4	339	8.1%
2	296	13.8%	-12000	20	-215	9.0%	8	2,019	48.5%
3	367	17.2%	-10000	19	-179	8.6%	12	684	16.4%
4	360	16.8%	-8000	20	-143	9.0%	16	335	8.0%
5	422	19.7%	-6000	5	-107	2.3%	20	180	4.3%
6	290	13.6%	-4000	6	-72	2.7%	24	129	3.1%
7	287	13.4%	-2000	2	-36	0.9%	28	71	1.7%
8	65	3.0%	0	3	0	1.4%	32	53	1.3%
TOTAL	2,138		2000	4	36	1.8%	36	40	1.0%
			4000	2	72	0.9%	40	36	0.9%
			6000	2	107	0.9%	44	20	0.5%
2-GATE SORTS			8000	6	143	2.7%	48	21	0.5%
DET	SORTS	FREQ%	10000	7	179	3.2%	52	21	0.5%
9	144	7.1%	12000	18	215	8.1%	56	12	0.3%
10	333	16.4%	14000	20	250	9.0%	60	15	0.4%
11	345	17.0%	16000	23	286	10.4%	64	8	0.2%
12	404	19.9%	18000	29	322	13.1%	68	8	0.2%
13	388	19.1%	20000	9	358	4.1%	72	9	0.2%
14	261	12.9%	22000	0	394	0.0%	76	3	0.1%
15	153	7.5%	24000	0	429	0.0%	80	8	0.2%
TOTAL	2,028		26000	0	465	0.0%	84	8	0.2%
			>28000	0	0	0.0%	>84	147	3.5%
			TOTAL	221			TOTAL	4,166	
EVENT TYPES		HPE	3,972	MPE	8,840	DISE	77,985		



SORTER 2

16-Apr-94

SORTER SOIL DENSITY		1.20 tons/m ³	BACKGROUND		0.79 ± 0.05 c/s
SOIL		CONTAMINATED	CLEAN	TOTAL	
MASS TOTAL		54.4 tons	20.4 tons	74.8 tons	
MAXIMUM/SORT		58.1 kg	55.9 kg		
MINIMUM/SORT		0.7 kg	41.9 kg		
VOLUME IN-GROUND		43.1 yd ³	16.1 yd ³	59.3 yd ³	
WEIGHT RECOVERY (CLEAN/(HOT+CLEAN))		27.2%			

ACTIVITY

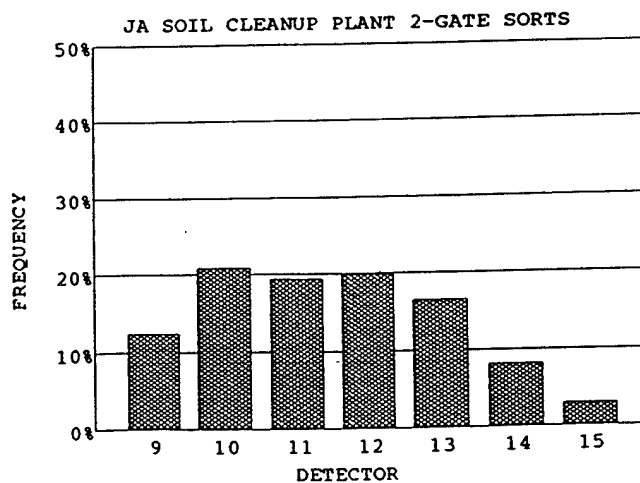
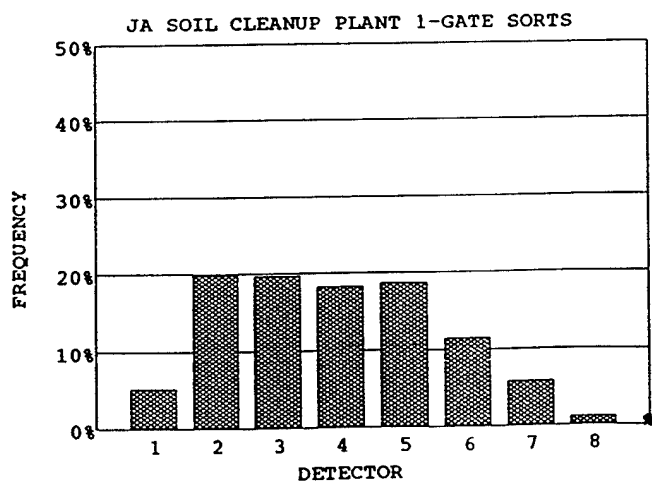
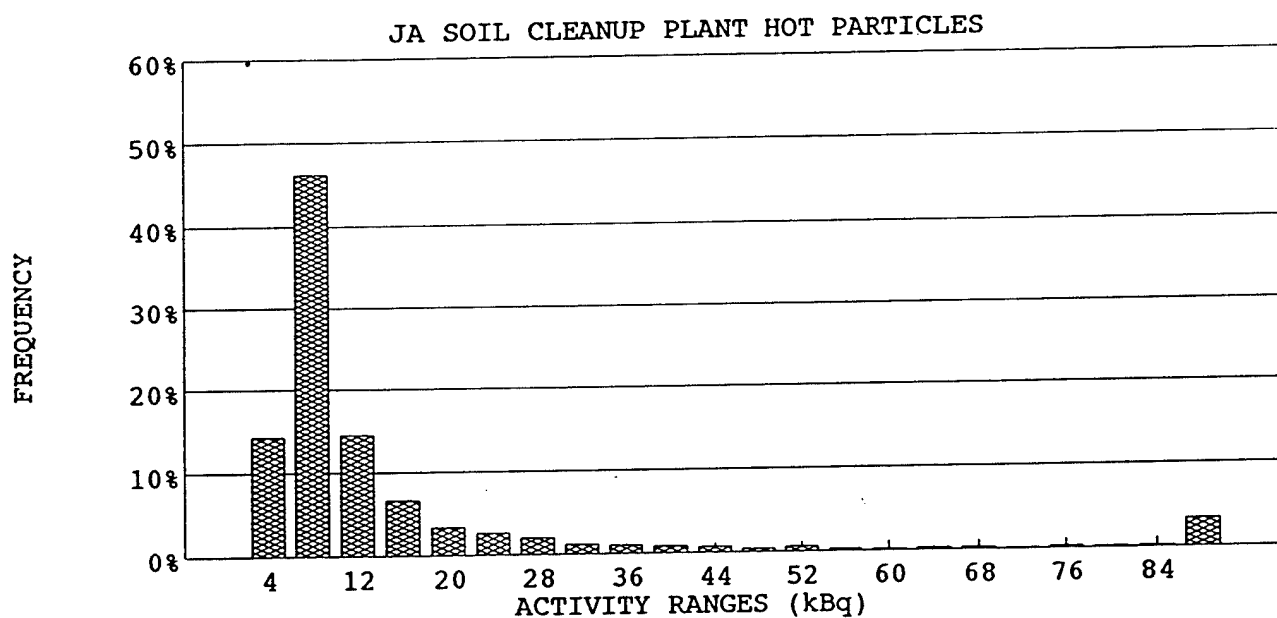
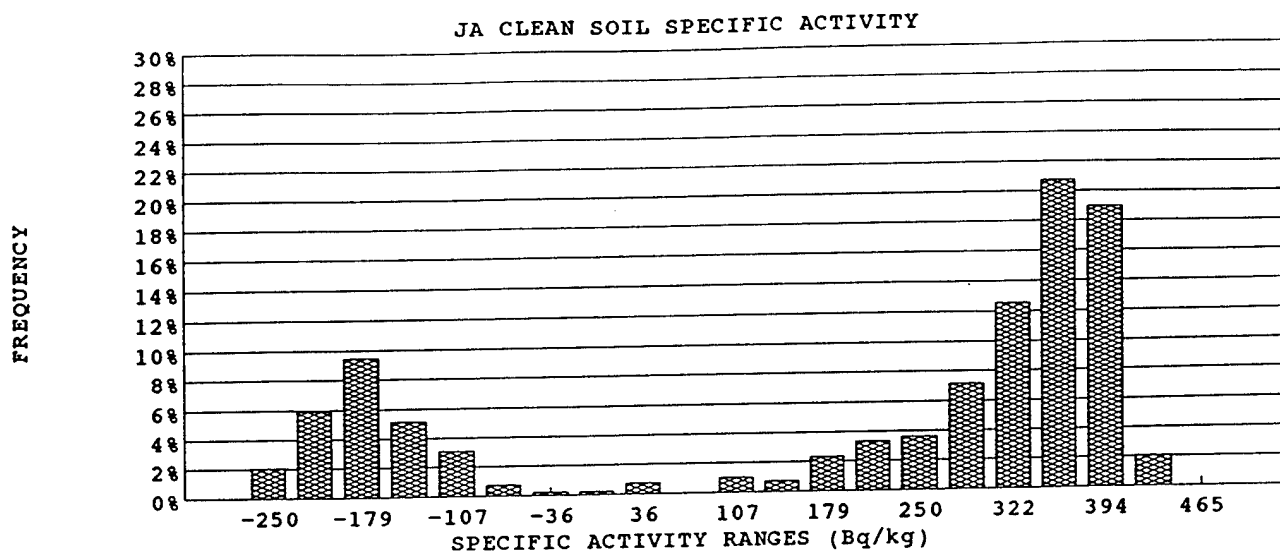
		PARTICLE	DISPERSED + PARTICLE	
			HOT	CLEAN
TOTAL		111,884 kBq	72,323 kBq	4,023 kBq
MAXIMUM/SORT		5,393 kBq	3,066 kBq	23 kBq
MINIMUM/SORT		2 kBq	(17,090)Bq	-16 kBq
SPECIFIC ACTIVITY			1,329 Bq/kg	197 Bq/kg

SORTS

20-SEC PROCESS PERIODS		1,338	UNEXP	PAUSE
			TIME	TIME
ALL 80 ELEMENTS SORT (MD>0&MND=0)		960	06:21	06:11
NONE (AD=0 & MD=0 & MND>0)		130		07:24
SOME (AD>0&0<MD<MNDmax&MND<MNDmax)		248		08:55
UNEXPLAINED RECORDS		0		09:37
0<AD<1kBq & MD>0		0		10:25
AD=0 & MD>0		0		13:31
AD<0 & MD >0		1		
2-SEC COUNT PERIODS		13,380		
2-SEC RECORDS WITH SORTS		4,044		
2-SEC RECORDS WITHOUT SORTS		9,336		
TOTAL PROCESS RECORDS (2-s SORTS and 20-s PERIODS)		5,382		
NONPROCESSING RECORDS (Test, calibration, etc)		13		
2-SEC SORT DETECTORS				
1 DET	2,863 70.8%	5 DET	26	0.6%
2 DET	899 22.2%	6 DET	0	0.0%
3 DET	207 5.1%	7 DET	2	0.0%
4 DET	49 1.2%	8 DET	1	0.0%
AVERAGE TIME BETWEEN 2-SEC SORTS		9.3 sec		

FREQUENCY DISTRIBUTIONS

1-GATESORTS			ACT_ND	NUM	SPEC_A	FREQ%	ACT_P	NUM	FREQ%
DET	SORTS	FREQ%	(Bq)	(#)	(Bq/kg)		(kBq)	(#)	
1	105	5.2%	-14000	8	-250	2.0%	4	578	14.3%
2	405	19.9%	-12000	23	-215	5.9%	8	1,870	46.2%
3	401	19.7%	-10000	37	-179	9.5%	12	587	14.5%
4	372	18.3%	-8000	20	-143	5.1%	16	271	6.7%
5	381	18.7%	-6000	12	-107	3.1%	20	140	3.5%
6	233	11.4%	-4000	3	-72	0.8%	24	108	2.7%
7	117	5.7%	-2000	1	-36	0.3%	28	83	2.1%
8	23	1.1%	0	1	0	0.3%	32	49	1.2%
TOTAL	2,037		2000	3	36	0.8%	36	40	1.0%
2-GATESORTS			4000	0	72	0.0%	40	35	0.9%
DET	SORTS	FREQ%	6000	4	107	1.0%	44	29	0.7%
9	248	12.4%	8000	3	143	0.8%	48	17	0.4%
10	419	20.9%	10000	9	179	2.3%	52	27	0.7%
11	388	19.3%	12000	13	215	3.3%	56	10	0.2%
12	400	19.9%	14000	14	250	3.6%	60	9	0.2%
13	331	16.5%	16000	28	286	7.2%	64	11	0.3%
14	163	8.1%	18000	49	322	12.5%	68	10	0.2%
15	58	2.9%	20000	81	358	20.7%	72	5	0.1%
TOTAL	2,007		22000	74	394	18.9%	76	10	0.2%
			24000	8	429	2.0%	80	8	0.2%
			26000	0	465	0.0%	84	9	0.2%
			>28000	0	0	0.0%	>84	138	3.4%
			TOTAL	391			TOTAL	4,044	
EVENT TYPES			HPE	3,885	MPE	4,323	DISE	69,677	



WORK HISTORY - JA SOIL CLEANUP PLANT

18-Apr-94

WORK DAY START	06:00 AM	WORK DAY END	16:30 PM
LUNCH START	11:00 AM	TIME LOST DURING LUNCH	0.0 HR

	SORTER 1	SORTER 2	SORTER 3	SORTER 4	TOTAL (sorter hours)
WORK HOURS	10.5 hr	10.5 hr	10.5 hr	10.5 hr	42.0 hr
SORTER AVAILABLE HOURS	10.3 hr	10.3 hr	0.0 hr	0.0 hr	20.7 hr
SORTER START-UP	06:00	06:00	NA	NA	
START SOIL PROCESSING	06:18	06:36	NA	NA	
TIME REQUIRED TO START-UP	0.3 hr	0.6 hr	0.0 hr	0.0 hr	0.9 hr
SORTER SHUT-DOWN	16:20	16:20	NA	NA	
END SOIL PROCESSING	16:01	16:03	NA	NA	
TIME REQUIRED TO SHUT DOWN	0.3 hr	0.3 hr	0.0 hr	0.0 hr	0.6 hr
ACTUAL PROCESS HOURS	9.4 hr	9.2 hr	0.0 hr	0.0 hr	18.6 hr
DOWN-TIME	0.9 hr	1.2 hr	0.0 hr	0.0 hr	2.1 hr
SYSTEM PAUSE	0.3 hr	0.3 hr	0.0 hr	0.0 hr	0.6 hr
SORTER NONAVAILABLE TIME	0.2 hr	0.2 hr	10.0 hr	10.0 hr	20.3 hr
AUTHORIZED DELAY TIME	0.0 hr	0.0 hr	10.0 hr	10.0 hr	20.0 hr
PLANT PERFORMANCE					90.0%
PRODUCTIVITY					44.3%

PRODUCTIVITY

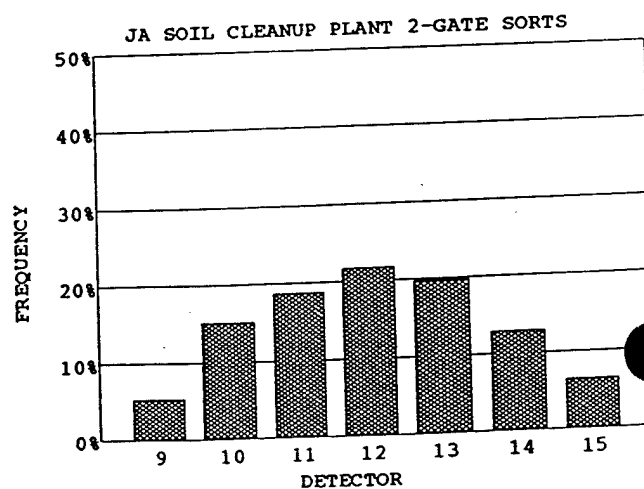
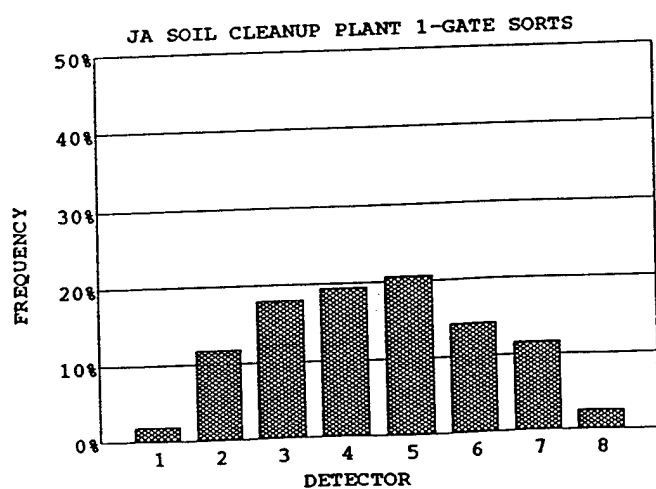
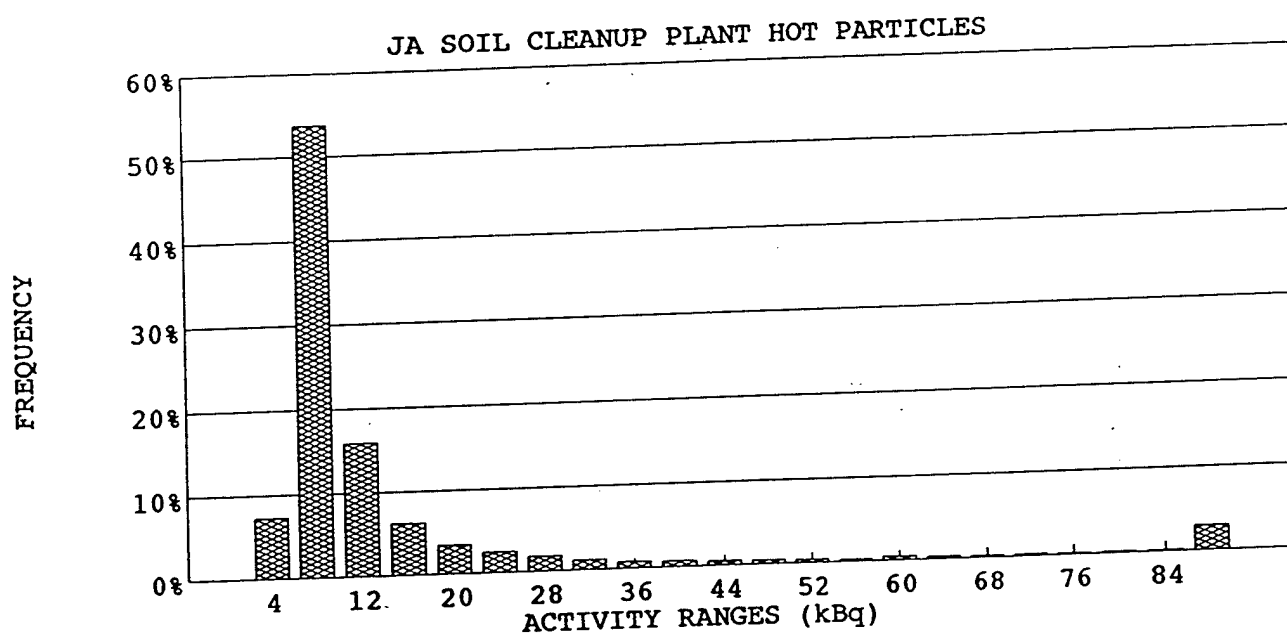
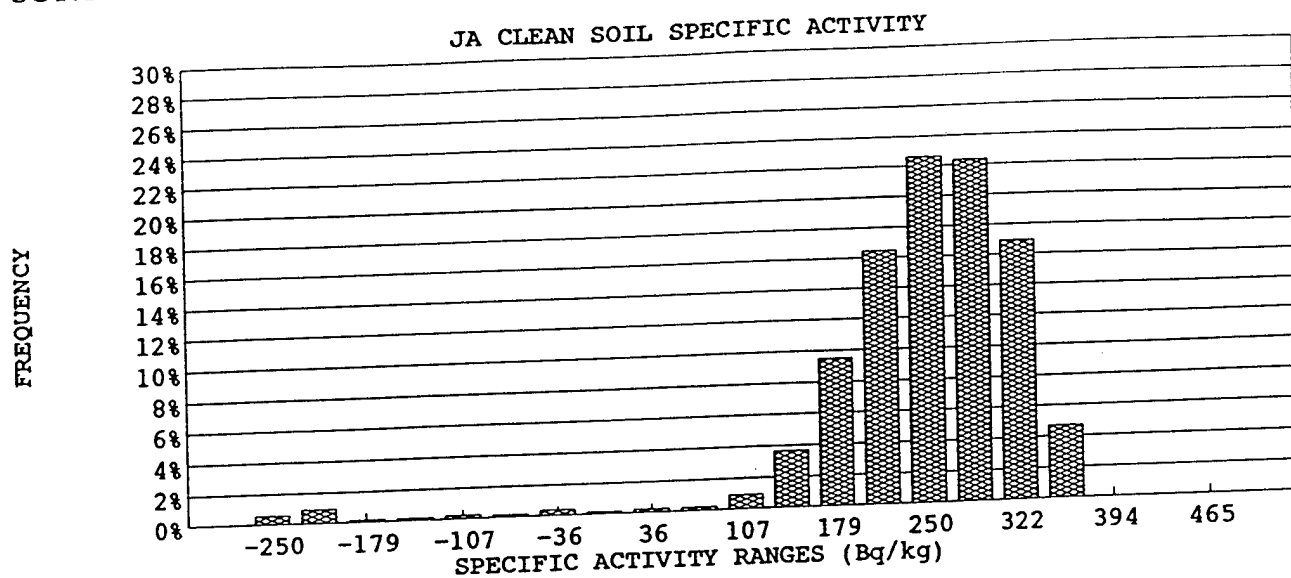
Date	18-Apr-94	Excused Delays for day (sorter-hrs)	20 hr
Contract day (from 6 Sep)	181	Excused delays for contract (sorter-hrs)	3,050 hr
Current Contract week	31	Excused delay days (plant-days)	76 days
		Excused delay months (plant-month)	2.93 months
Soil production for Day	187 MT		
Cumulative Soil Production for Week	187 MT	Percent of contract completed	40.3%
Total Soil production for contract		Tons Ahead or Behind Schedule	1,702 MT
Since 6 Sep 93	38,673 MT	Days ahead or behind schedule	5 days
Since 6 Aug 93	40,264 MT		
Total Soil production for project	66,551 MT		

MT = metric tons

SORTER 1				18-Apr-94					
SORTER SOIL DENSITY		1.20 tons/m³		BACKGROUND		0.68 ± 0.03 c/s			
SOIL		CONTAMINATED		CLEAN		TOTAL			
MASS TOTAL		48.3 tons		46.5 tons		94.9 tons			
MAXIMUM/SORT		55.9 kg		55.9 kg					
MINIMUM/SORT		0.7 kg		46.8 kg					
VOLUME IN-GROUND		38.3 yd³		36.9 yd³		75.2 yd³			
WEIGHT RECOVERY (CLEAN/(HOT+CLEAN))		49.1%							
ACTIVITY		PARTICLE		DISPERSED + PARTICLE					
				HOT		CLEAN			
TOTAL		98,755 kBq		70,169 kBq		11,299 kBq			
MAXIMUM/SORT		10,509 kBq		5,935 kBq		20 kBq			
MINIMUM/SORT		3 kBq		0 Bq		-14 kBq			
SPECIFIC ACTIVITY				1,452 Bq/kg		243 Bq/kg			
SORTS									
20-SEC PROCESS PERIODS				1,697		UNEXP PAUSE			
ALL 80 ELEMENTS SORT (MD>0&MND=0)				828		TIME TIME			
NONE (AD=0 & MD=0 & MND>0)				74		06:18 11:36			
SOME (AD>0&0<MD<MNDmax&MND<MNDmax)				795		08:47 12:53			
UNEXPLAINED RECORDS				0		14:16			
0<AD<1kBq & MD>0				2		15:27			
AD=0 & MD>0				0					
AD<0 & MD >0				0					
2-SEC COUNT PERIODS				16,970					
2-SEC RECORDS WITH SORTS				4,036					
2-SEC RECORDS WITHOUT SORTS				12,934					
TOTAL PROCESS RECORDS (2-s SORTS and 20-s PERIODS)				5,733					
NONPROCESSING RECORDS (Test, calibration, etc)				7					
2-SEC SORT DETECTORS									
1 DET		2,942	72.9%	5 DET		11	0.3%		
2 DET		848	21.0%	6 DET		0	0.0%		
3 DET		190	4.7%	7 DET		0	0.0%		
4 DET		45	1.1%	8 DET		0	0.0%		
AVERAGE TIME BETWEEN 2-SEC SORTS				11.5 sec					
FREQUENCY DISTRIBUTIONS									
1-GATESORTS			ACT_ND	NUM	SPEC_A	FREQ%	ACT_P	NUM	FREQ%
DET	SORTS	FREQ%	(Bq)	(#)	(Bq/kg)		(kBq)	(#)	
1	37	1.8%	-14000	5	-250	0.6%	4	297	7.4%
2	241	11.7%	-12000	8	-215	0.9%	8	2,168	53.7%
3	370	18.0%	-10000	1	-179	0.1%	12	641	15.9%
4	398	19.4%	-8000	1	-143	0.1%	16	253	6.3%
5	424	20.7%	-6000	2	-107	0.2%	20	140	3.5%
6	293	14.3%	-4000	1	-72	0.1%	24	101	2.5%
7	238	11.6%	-2000	3	-36	0.3%	28	72	1.8%
8	51	2.5%	0	1	0	0.1%	32	47	1.2%
TOTAL	2,052		2000	2	36	0.2%	36	30	0.7%
			4000	2	72	0.2%	40	27	0.7%
			6000	8	107	0.9%	44	23	0.6%
2-GATESORTS			8000	32	143	3.7%	48	18	0.4%
9	104	5.2%	10000	83	179	9.5%	52	17	0.4%
10	301	15.2%	12000	144	215	16.4%	56	10	0.2%
11	373	18.8%	14000	198	250	22.6%	60	20	0.5%
12	431	21.7%	16000	196	286	22.4%	64	12	0.3%
13	392	19.8%	18000	148	322	16.9%	68	9	0.2%
14	255	12.9%	20000	41	358	4.7%	72	11	0.3%
15	128	6.5%	22000	0	394	0.0%	76	7	0.2%
TOTAL	1,984		24000	0	429	0.0%	80	5	0.1%
			26000	0	465	0.0%	84	6	0.1%
			>28000	0	0	0.0%	>84	122	3.0%
			TOTAL	876			TOTAL	4,036	
EVENT TYPES		HPE	4,026	MPE	8,239	DISE	56,891		

18-Apr-94

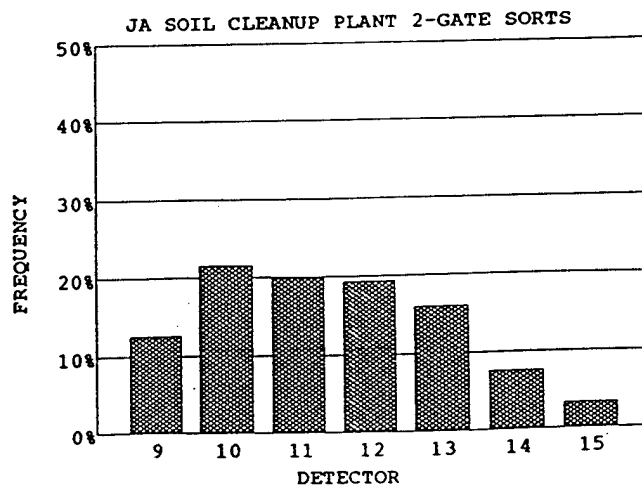
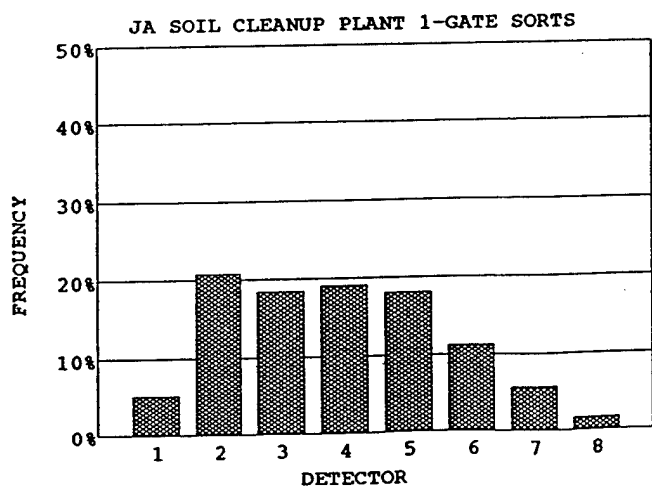
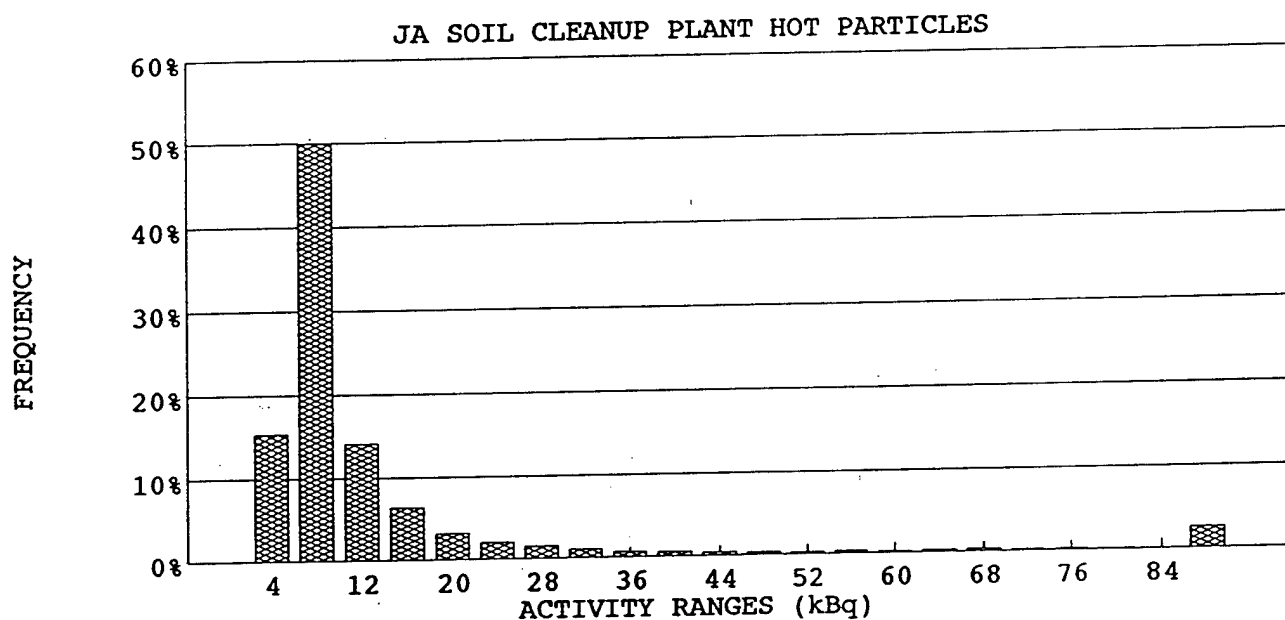
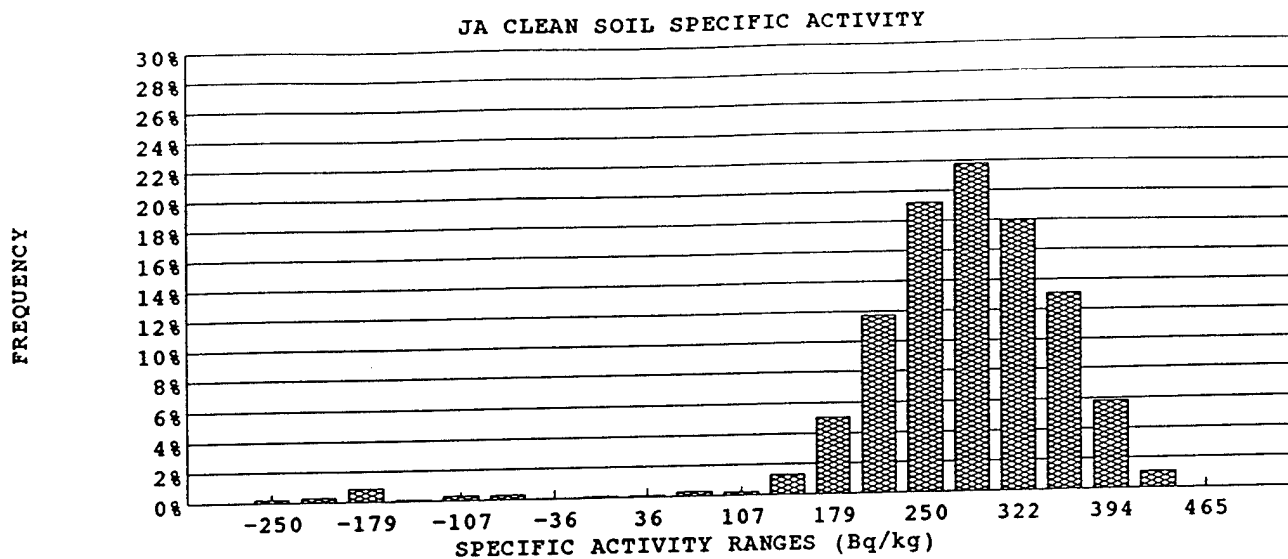
SORTER 1



SORTER 2

18-Apr-94

SORTER SOIL DENSITY		1.20 tons/m³		BACKGROUND		0.78 ± 0.04 c/s			
SOIL				CONTAMINATED		CLEAN		TOTAL	
MASS TOTAL				44.2 tons		48.1 tons		92.2 tons	
MAXIMUM/SORT				55.9 kg		55.9 kg			
MINIMUM/SORT				0.7 kg		42.6 kg			
VOLUME IN-GROUND				35.0 yd³		38.1 yd³		73.1 yd³	
WEIGHT RECOVERY (CLEAN/(HOT+CLEAN))				52.1%					
ACTIVITY				PARTICLE		DISPERSED + PARTICLE			
						HOT		CLEAN	
TOTAL				60,733 kBq		51,688 kBq		13,010 kBq	
MAXIMUM/SORT				2,022 kBq		1,567 kBq		23 kBq	
MINIMUM/SORT				2 kBq		0 Bq		-15 kBq	
SPECIFIC ACTIVITY						1,170 Bq/kg		271 Bq/kg	
SORTS						1,650		UNEXP PAUSE	
20-SEC PROCESS PERIODS								TIME TIME	
ALL 80 ELEMENTS SORT (MD>0&MND=0)				763				None 11:36	
NONE (AD=0 & MD=0 & MND>0)				180				12:55	
SOME (AD>0&0<MD<MNDmax&MND<MNDmax)				707				14:16	
UNEXPLAINED RECORDS				0				15:27	
0<AD<1kBq & MD>0				0					
AD=0 & MD>0				0					
AD<0 & MD >0				0					
2-SEC COUNT PERIODS						16,500			
2-SEC RECORDS WITH SORTS				3,639					
2-SEC RECORDS WITHOUT SORTS				12,861					
TOTAL PROCESS RECORDS (2-s SORTS and 20-s PERIODS)						5,289			
NONPROCESSING RECORDS (Test, calibration, etc)						9			
2-SEC SORT DETECTORS									
1 DET		2,734	75.1%	5 DET		3	0.1%		
2 DET		731	20.1%	6 DET		0	0.0%		
3 DET		140	3.8%	7 DET		0	0.0%		
4 DET		31	0.9%	8 DET		0	0.0%		
AVERAGE TIME BETWEEN 2-SEC SORTS				12.1 sec					
FREQUENCY DISTRIBUTIONS									
1-GATE SORTS			ACT_ND	NUM	SPEC_A	FREQ%	ACT_P	NUM	FREQ%
DET	SORTS	FREQ%	(Bq)	(#)	(Bq/kg)		(kBq)	(#)	
1	94	5.1%	-14000	2	-250	0.2%	4	559	15.4%
2	380	20.8%	-12000	3	-215	0.3%	8	1,817	49.9%
3	337	18.4%	-10000	8	-179	0.9%	12	513	14.1%
4	350	19.1%	-8000	1	-143	0.1%	16	232	6.4%
5	331	18.1%	-6000	3	-107	0.3%	20	115	3.2%
6	206	11.3%	-4000	3	-72	0.3%	24	75	2.1%
7	102	5.6%	-2000	0	-36	0.0%	28	53	1.5%
8	29	1.6%	0	1	0	0.1%	32	37	1.0%
TOTAL	1,829		2000	1	36	0.1%	36	24	0.7%
			4000	3	72	0.3%	40	22	0.6%
			6000	2	107	0.2%	44	14	0.4%
2-GATE SORTS			8000	12	143	1.3%	48	12	0.3%
DET	SORTS	FREQ%	10000	45	179	5.0%	52	10	0.3%
9	228	12.6%	12000	105	215	11.7%	56	13	0.4%
10	389	21.5%	14000	172	250	19.2%	60	8	0.2%
11	359	19.8%	16000	195	286	21.8%	64	10	0.3%
12	350	19.3%	18000	161	322	18.0%	68	13	0.4%
13	289	16.0%	20000	117	358	13.1%	72	7	0.2%
14	136	7.5%	22000	52	394	5.8%	76	6	0.2%
15	59	3.3%	24000	10	429	1.1%	80	4	0.1%
TOTAL	1,810		26000	0	465	0.0%	84	2	0.1%
			>28000	0	0	0.0%	>84	93	2.6%
			TOTAL	896			TOTAL	3,639	
EVENT TYPES		HPE	3,715	MPE	4,001	DISE	55,508		



WORK HISTORY - JA SOIL CLEANUP PLANT

19-Apr-94

WORK DAY START	06:00 AM	WORK DAY END	16:30 PM
LUNCH START	11:00 AM	TIME LOST DURING LUNCH	0.0 HR

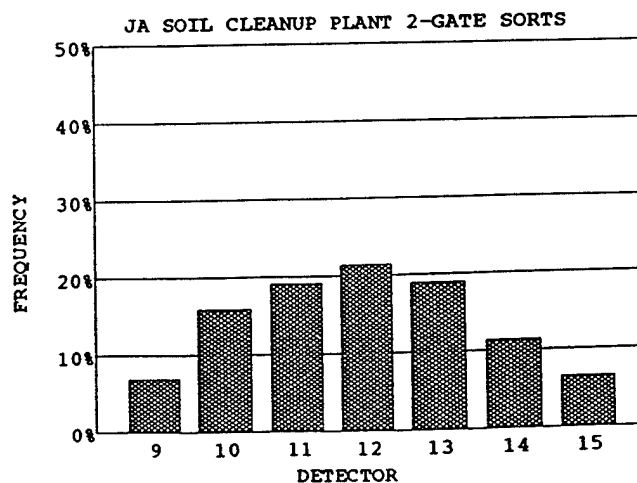
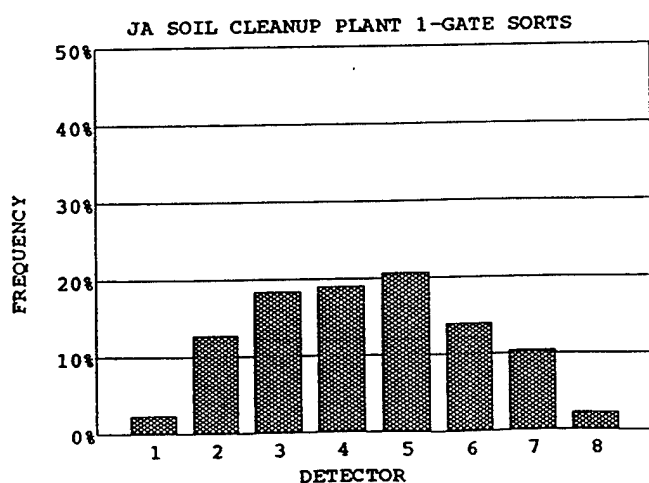
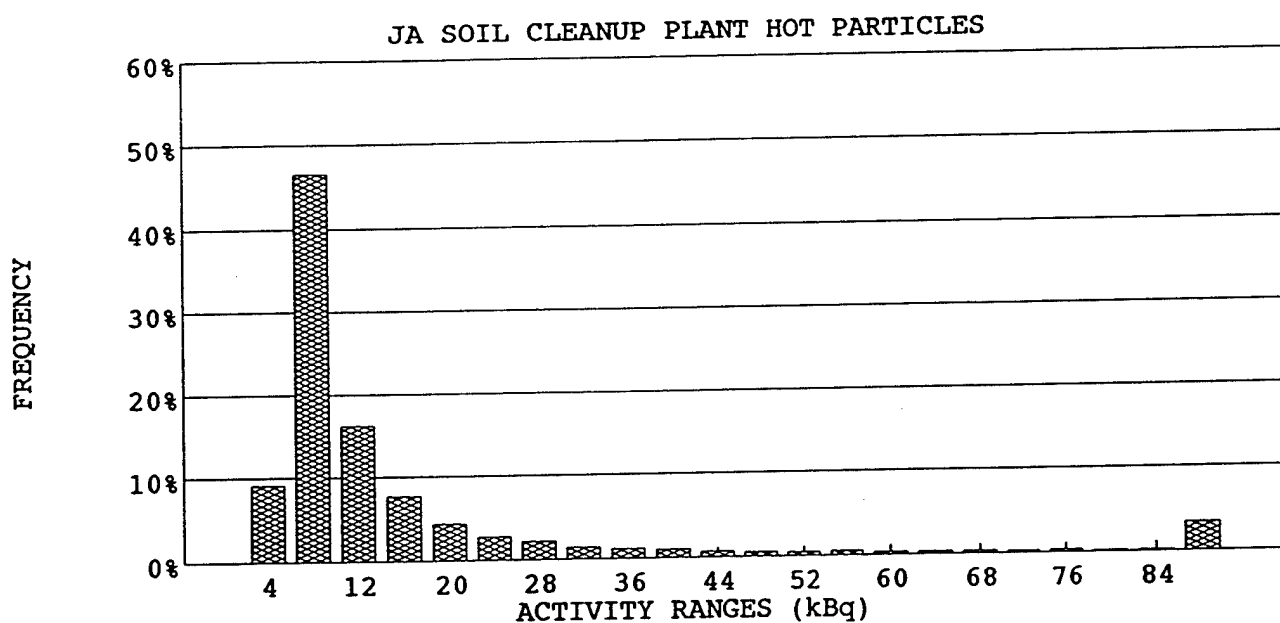
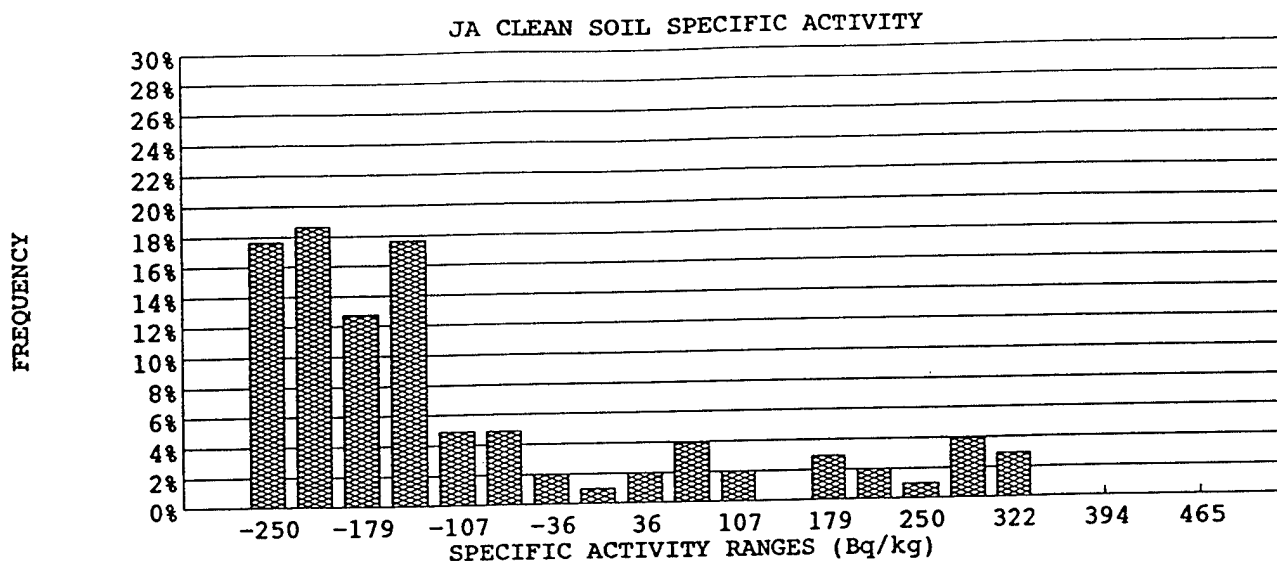
	SORTER 1	SORTER 2	SORTER 3	SORTER 4	TOTAL (sorter hours)
WORK HOURS	10.5 hr	10.5 hr	10.5 hr	10.5 hr	42.0 hr
SORTER AVAILABLE HOURS	10.3 hr	10.3 hr	0.0 hr	0.0 hr	20.5 hr
SORTER START-UP	06:10	06:10	NA	NA	
START SOIL PROCESSING	06:26	06:25	NA	NA	
TIME REQUIRED TO START-UP	0.3 hr	0.3 hr	0.0 hr	0.0 hr	0.5 hr
SORTER SHUT-DOWN	16:25	16:25	NA	NA	
END SOIL PROCESSING	16:05	16:04	NA	NA	
TIME REQUIRED TO SHUT DOWN	0.3 hr	0.3 hr	0.0 hr	0.0 hr	0.7 hr
ACTUAL PROCESS HOURS	9.1 hr	9.1 hr	0.0 hr	0.0 hr	18.2 hr
DOWN-TIME	1.1 hr	1.2 hr	0.0 hr	0.0 hr	2.3 hr
SYSTEM PAUSE	0.5 hr	0.6 hr	0.0 hr	0.0 hr	1.1 hr
SORTER NONAVAILABLE TIME	0.2 hr	0.2 hr	10.0 hr	10.0 hr	20.5 hr
AUTHORIZED DELAY TIME	0.0 hr	0.0 hr	10.0 hr	10.0 hr	20.0 hr
PLANT PERFORMANCE					88.7%
PRODUCTIVITY					43.3%

PRODUCTIVITY

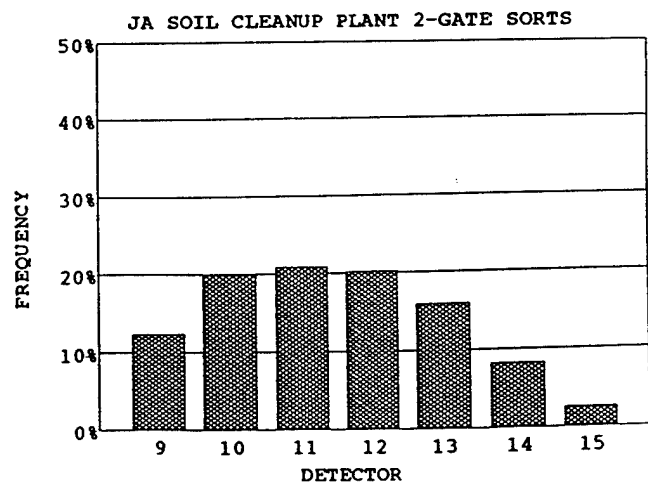
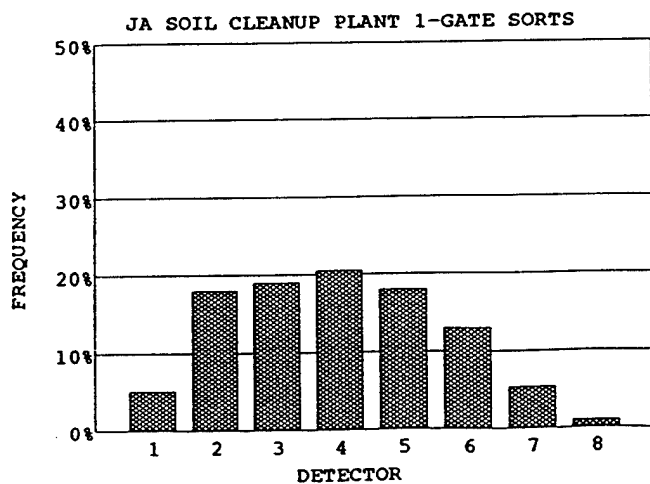
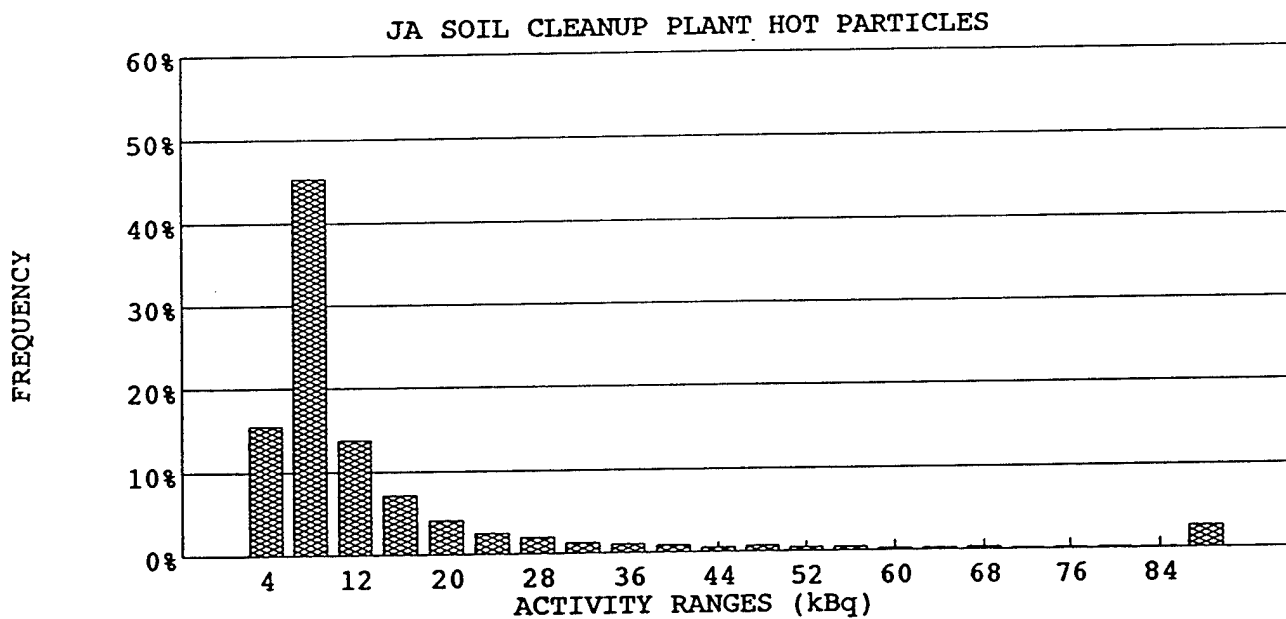
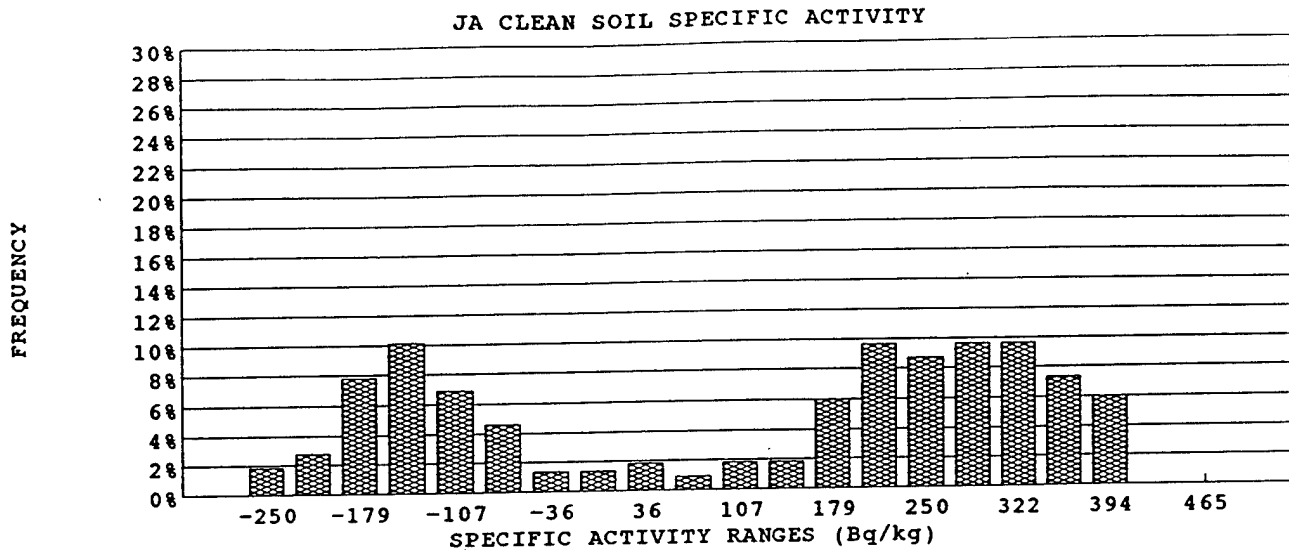
Date	19-Apr-94	Excused Delays for day (sorter-hrs)	20 hr
Contract day (from 6 Sep)	182	Excused delays for contract (sorter-hrs)	3,070 hr
Current Contract week	31	Excused delay days (plant-days)	77 days
		Excused delay months (plant-month)	2.95 months
Soil production for Day	183 MT		
Cumulative Soil Production for Week	370 MT	Percent of contract completed	40.4%
Total Soil production for contract		Tons Ahead or Behind Schedule	1,727 MT
Since 6 Sep 93	38,856 MT	Days ahead or behind schedule	5 days
Since 6 Aug 93	40,447 MT		
Total Soil production for project	66,734 MT		

MT = metric tons

SORTER 1				19-Apr-94					
SORTER SOIL DENSITY		1.20 tons/m ³		BACKGROUND		0.67 ± 0.03 c/s			
SOIL	CONTAMINATED		CLEAN		TOTAL				
MASS TOTAL	86.7 tons		5.1 tons		91.7 tons				
MAXIMUM/SORT	58.1 kg		55.9 kg						
MINIMUM/SORT	0.7 kg		46.1 kg						
VOLUME IN-GROUND	68.7 yd ³		4.0 yd ³		72.7 yd ³				
WEIGHT RECOVERY (CLEAN/(HOT+CLEAN))		5.5%							
ACTIVITY	PARTICLE		DISPERSED + PARTICLE						
			HOT	CLEAN					
TOTAL	252,017 kBq		162,482 kBq	(607)kBq					
MAXIMUM/SORT	8,531 kBq		5,622 kBq	17 kBq					
MINIMUM/SORT	2 kBq		(6,746)Bq	-20 kBq					
SPECIFIC ACTIVITY			1,875 Bq/kg	(120)Bq/kg					
SORTS			1,641	UNEXP	PAUSE				
20-SEC PROCESS PERIODS				TIME	TIME				
ALL 80 ELEMENTS SORT (MD>0&MND=0)			1,549		08:39	07:37			
NONE (AD=0 & MD=0 & MND>0)			73						
SOME (AD>0&0<MD<MNDmax&MND<MNDmax)			19		12:31	08:36			
UNEXPLAINED RECORDS			0			09:57			
0<AD<1kBq & MD>0			0			10:41			
AD=0 & MD>0			0			11:15			
AD<0 & MD >0			2			12:26			
2-SEC COUNT PERIODS				16,410		14:23			
2-SEC RECORDS WITH SORTS			8,366						
2-SEC RECORDS WITHOUT SORTS			8,044						
TOTAL PROCESS RECORDS (2-s SORTS and 20-s PERIODS)				10,007					
NONPROCESSING RECORDS (Test, calibration, etc)				10					
2-SEC SORT DETECTORS									
1 DET	5,637	67.4%	5 DET	55	0.7%				
2 DET	2,035	24.3%	6 DET	0	0.0%				
3 DET	502	6.0%	7 DET	4	0.0%				
4 DET	137	1.6%	8 DET	1	0.0%				
AVERAGE TIME BETWEEN 2-SEC SORTS			5.8 sec						
FREQUENCY DISTRIBUTIONS									
1-GATE SORTS		ACT_ND	NUM	SPEC_A	FREQ%	ACT_P	NUM	FREQ%	
DET	SORTS	FREQ%	(Bq)	(#)	(Bq/kg)	(kBq)	(#)		
1	101	2.4%	-14000	18	-250	17.6%	4	759	9.1%
2	545	12.8%	-12000	19	-215	18.6%	8	3,898	46.6%
3	788	18.4%	-10000	13	-179	12.7%	12	1,358	16.2%
4	811	19.0%	-8000	18	-143	17.6%	16	644	7.7%
5	884	20.7%	-6000	5	-107	4.9%	20	366	4.4%
6	600	14.0%	-4000	5	-72	4.9%	24	233	2.8%
7	445	10.4%	-2000	2	-36	2.0%	28	181	2.2%
8	98	2.3%	0	1	0	1.0%	32	119	1.4%
TOTAL	4,272		2000	2	36	2.0%	36	95	1.1%
			4000	4	72	3.9%	40	84	1.0%
			6000	2	107	2.0%	44	59	0.7%
2-GATE SORTS			8000	0	143	0.0%	48	45	0.5%
DET	SORTS	FREQ%	10000	3	179	2.9%	52	39	0.5%
9	283	6.9%	12000	2	215	2.0%	56	46	0.5%
10	650	15.9%	14000	1	250	1.0%	60	28	0.3%
11	782	19.1%	16000	4	286	3.9%	64	28	0.3%
12	875	21.4%	18000	3	322	2.9%	68	28	0.3%
13	773	18.9%	20000	0	358	0.0%	72	23	0.3%
14	465	11.4%	22000	0	394	0.0%	76	27	0.3%
15	266	6.5%	24000	0	429	0.0%	80	12	0.1%
TOTAL	4,094		26000	0	465	0.0%	84	12	0.1%
			>28000	0	0	0.0%	>84	282	3.4%
			TOTAL	102			TOTAL	8,366	
EVENT TYPES	HPE	7,690	MPE	18,666	DISE	97,665			



SORTER 2				19-Apr-94					
SORTER SOIL DENSITY		1.20 tons/m ³		BACKGROUND		0.79 ± 0.10 c/s			
SOIL		CONTAMINATED		CLEAN		TOTAL			
MASS TOTAL		80.2 tons		11.0 tons		91.2 tons			
MAXIMUM/SORT		58.1 kg		55.9 kg					
MINIMUM/SORT		0.7 kg		44.0 kg					
VOLUME IN-GROUND		63.6 yd ³		8.7 yd ³		72.3 yd ³			
WEIGHT RECOVERY (CLEAN/(HOT+CLEAN))		12.1%							
ACTIVITY		PARTICLE		DISPERSED + PARTICLE					
		HOT		CLEAN					
TOTAL		182,148 kBq		128,986 kBq		1,300 kBq			
MAXIMUM/SORT		9,465 kBq		7,370 kBq		21 kBq			
MINIMUM/SORT		2 kBq		(6,338)Bq		-19 kBq			
SPECIFIC ACTIVITY				1,608 Bq/kg		118 Bq/kg			
SORTS				1,632		UNEXP PAUSE			
20-SEC PROCESS PERIODS						TIME TIME			
ALL 80 ELEMENTS SORT (MD>0&MND=0)				1,423		08:39 07:33			
NONE (AD=0 & MD=0 & MND>0)				75		12:31 07:37			
SOME (AD>0&0<MD<MNDmax&MND<MNDmax)				134		08:36			
UNEXPLAINED RECORDS				0		09:57			
0<AD<1kBq & MD>0				0		10:41			
AD=0 & MD>0				0		11:15			
AD<0 & MD >0				1		12:26			
2-SEC COUNT PERIODS				16,320		14:23			
2-SEC RECORDS WITH SORTS				8,139					
2-SEC RECORDS WITHOUT SORTS				8,181					
TOTAL PROCESS RECORDS (2-s SORTS and 20-s PERIODS)				9,771					
NONPROCESSING RECORDS (Test, calibration, etc)				9					
2-SEC SORT DETECTORS									
1 DET		5,522	67.8%	5 DET	28	0.3%			
2 DET		1,998	24.5%	6 DET	0	0.0%			
3 DET		493	6.1%	7 DET	2	0.0%			
4 DET		98	1.2%	8 DET	0	0.0%			
AVERAGE TIME BETWEEN 2-SEC SORTS				5.9 sec					
FREQUENCY DISTRIBUTIONS									
1-GATE SORTS		ACT_ND	NUM	SPEC_A	FREQ%	ACT_P	NUM	FREQ%	
DET	SORTS	FREQ%	(Bq)	(#)	(Bq/kg)	(kBq)	(#)		
1	209	5.1%	-14000	4	-250	1.8%	4	1,265	15.5%
2	738	18.0%	-12000	6	-215	2.8%	8	3,685	45.3%
3	777	19.0%	-10000	17	-179	7.8%	12	1,124	13.8%
4	838	20.5%	-8000	22	-143	10.1%	16	589	7.2%
5	736	18.0%	-6000	15	-107	6.9%	20	335	4.1%
6	531	13.0%	-4000	10	-72	4.6%	24	206	2.5%
7	220	5.4%	-2000	3	-36	1.4%	28	161	2.0%
8	40	1.0%	0	3	0	1.4%	32	102	1.3%
TOTAL		4,089	2000	4	36	1.8%	36	85	1.0%
			4000	2	72	0.9%	40	69	0.8%
			6000	4	107	1.8%	44	44	0.5%
2-GATE SORTS			8000	4	143	1.8%	48	60	0.7%
DET	SORTS	FREQ%	10000	13	179	6.0%	52	37	0.5%
9	500	12.3%	12000	21	215	9.6%	56	38	0.5%
10	811	20.0%	14000	19	250	8.7%	60	24	0.3%
11	844	20.8%	16000	21	286	9.6%	64	23	0.3%
12	817	20.2%	18000	21	322	9.6%	68	29	0.4%
13	645	15.9%	20000	16	358	7.3%	72	14	0.2%
14	331	8.2%	22000	13	394	6.0%	76	14	0.2%
15	102	2.5%	24000	0	429	0.0%	80	13	0.2%
TOTAL		4,050	26000	0	465	0.0%	84	9	0.1%
			>28000	0	0	0.0%	>84	213	2.6%
			TOTAL	218			TOTAL	8,139	
EVENT TYPES		HPE	7,525	MPE	9,502	DISE	97,796		



WORK HISTORY - JA SOIL CLEANUP PLANT

20-Apr-94

WORK DAY START	06:00 AM	WORK DAY END	16:30 PM
LUNCH START	11:00 AM	TIME LOST DURING LUNCH	0.0 HR

	SORTER 1	SORTER 2	SORTER 3	SORTER 4	TOTAL (sorter hours)
WORK HOURS	10.5 hr	10.5 hr	10.5 hr	10.5 hr	42.0 hr
SORTER AVAILABLE HOURS	10.3 hr	10.3 hr	0.0 hr	0.0 hr	20.5 hr
SORTER START-UP	06:10	06:10	NA	NA	
START SOIL PROCESSING	06:28	06:28	NA	NA	
TIME REQUIRED TO START-UP	0.3 hr	0.3 hr	0.0 hr	0.0 hr	0.6 hr
SORTER SHUT-DOWN	16:25	16:25	NA	NA	
END SOIL PROCESSING	16:08	16:06	NA	NA	
TIME REQUIRED TO SHUT DOWN	0.3 hr	0.3 hr	0.0 hr	0.0 hr	0.6 hr
ACTUAL PROCESS HOURS	9.3 hr	9.3 hr	0.0 hr	0.0 hr	18.6 hr
DOWN-TIME	1.0 hr	0.9 hr	0.0 hr	0.0 hr	1.9 hr
SYSTEM PAUSE	0.3 hr	0.3 hr	0.0 hr	0.0 hr	0.6 hr
SORTER NONAVAILABLE TIME	0.2 hr	0.2 hr	10.0 hr	10.0 hr	20.5 hr
AUTHORIZED DELAY TIME	0.0 hr	0.0 hr	10.0 hr	10.0 hr	20.0 hr
PLANT PERFORMANCE					90.8%
PRODUCTIVITY					44.3%

PRODUCTIVITY

Date	20-Apr-94	Excused Delays for day (sorter-hrs)	20 hr
Contract day (from 6 Sep)	183	Excused delays for contract (sorter-hrs)	3,090 hr
Current Contract week	31	Excused delay days (plant-days)	77 days
		Excused delay months (plant-month)	2.97 months
Soil production for Day	187 MT		
Cumulative Soil Production for Week	557 MT	Percent of contract completed	40.6%
Total Soil production for contract		Tons Ahead or Behind Schedule	1,756 MT
Since 6 Sep 93	39,043 MT	Days ahead or behind schedule	6 days
Since 6 Aug 93	40,634 MT		
Total Soil production for project	66,921 MT		

MT = metric tons

SORTER 1

20-Apr-94

SORTER SOIL DENSITY		1.20 tons/m ³	BACKGROUND		0.67 ± 0.02 c/s
SOIL		CONTAMINATED	CLEAN	TOTAL	
MASS TOTAL		85.2 tons	8.2 tons	93.5 tons	
MAXIMUM/SORT		58.1 kg	55.9 kg		
MINIMUM/SORT		0.7 kg	43.3 kg		
VOLUME IN-GROUND		67.6 yd ³	6.5 yd ³	74.1 yd ³	
WEIGHT RECOVERY (CLEAN/(HOT+CLEAN))		8.8%			

ACTIVITY

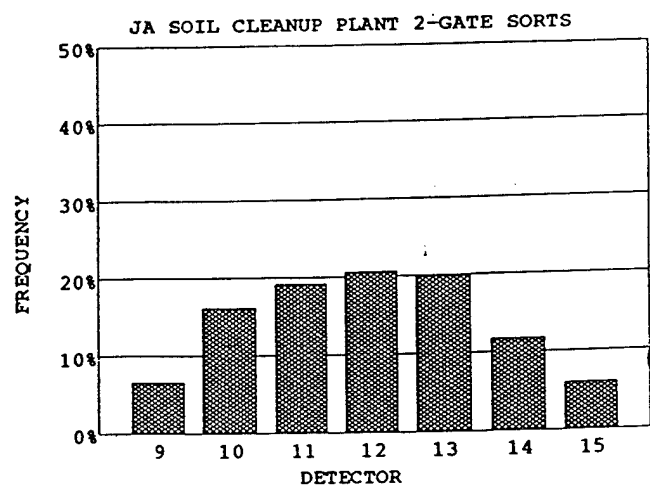
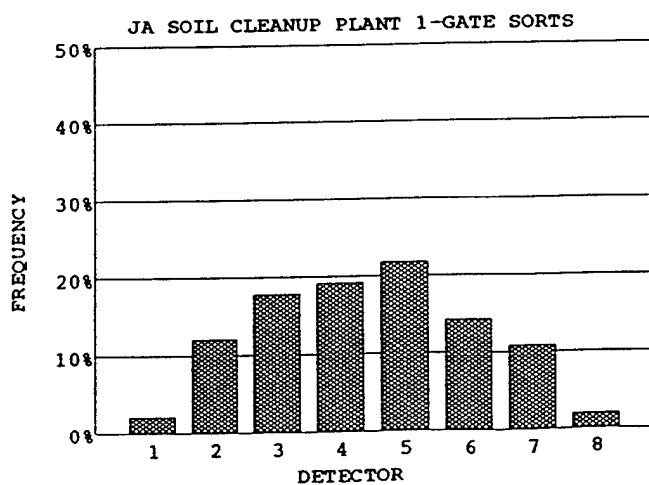
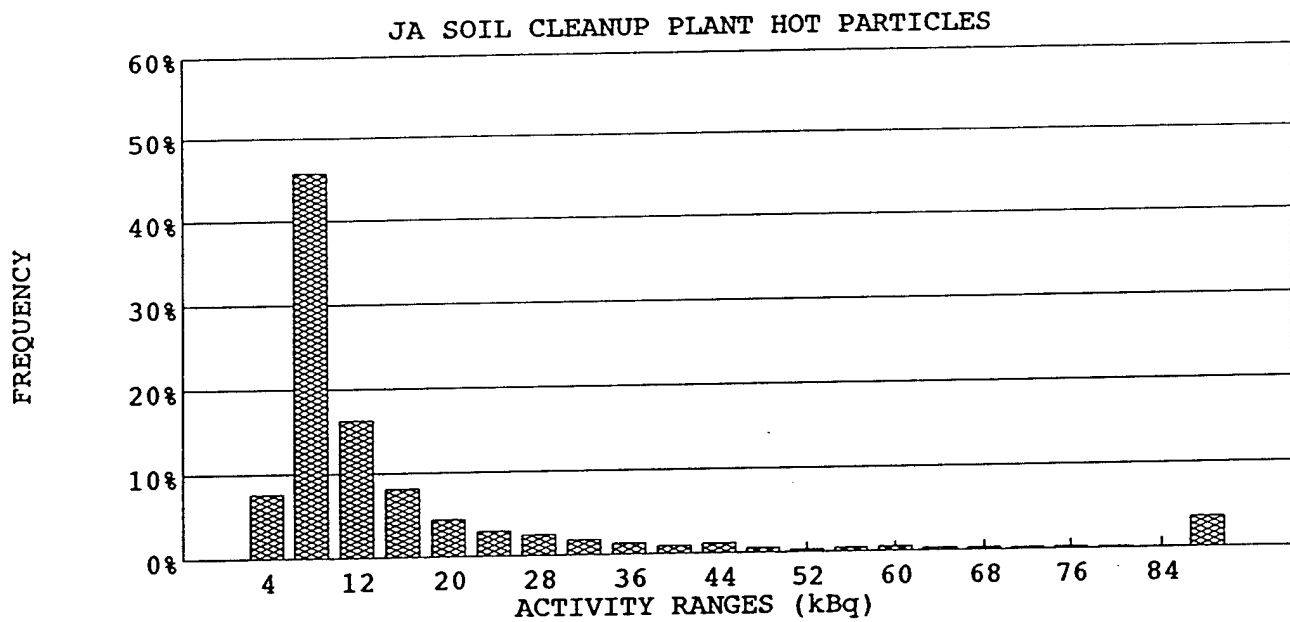
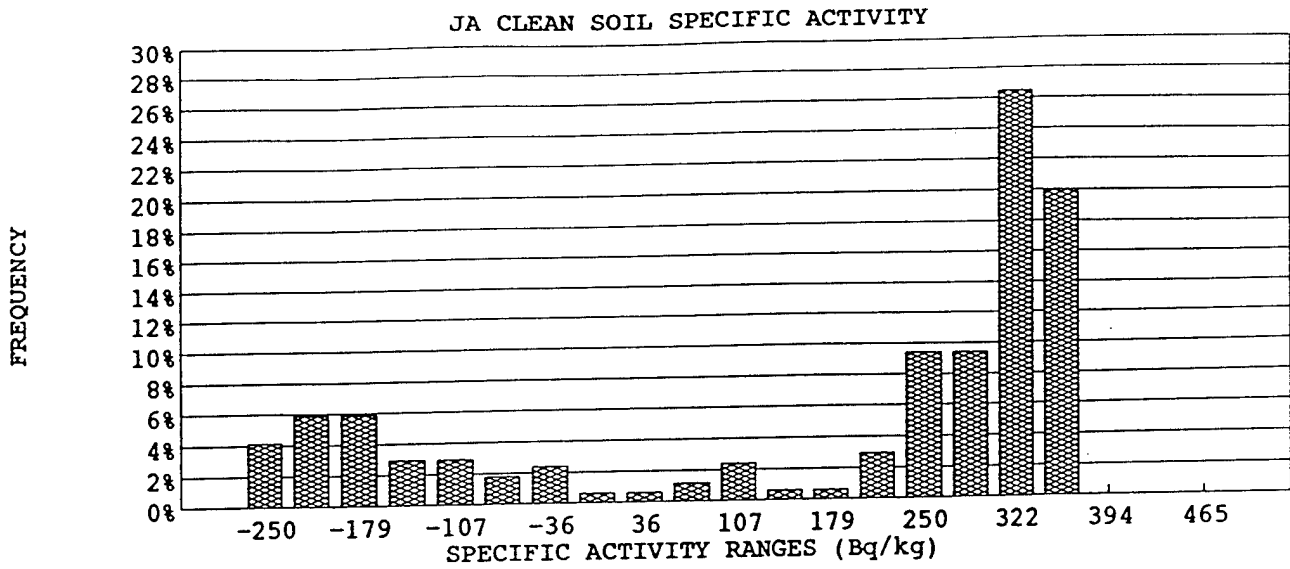
		PARTICLE	HOT	CLEAN
TOTAL		103,998 kBq	90,729 kBq	1,652 kBq
MAXIMUM/SORT		3,394 kBq	2,027 kBq	20 kBq
MINIMUM/SORT		2 kBq	(18,669) Bq	-17 kBq
SPECIFIC ACTIVITY			1,064 Bq/kg	201 Bq/kg

SORTS

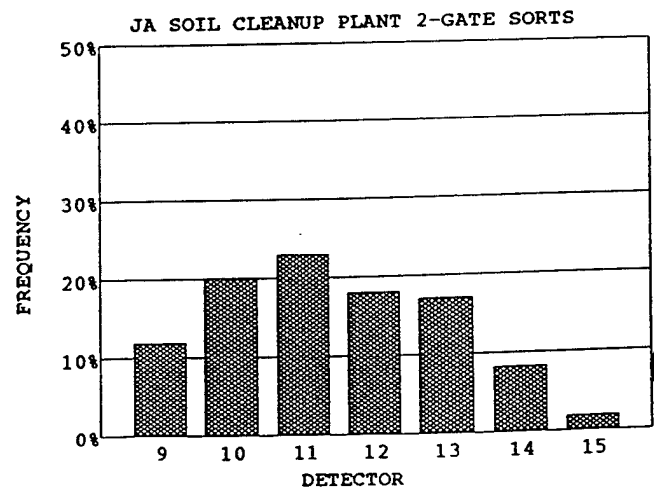
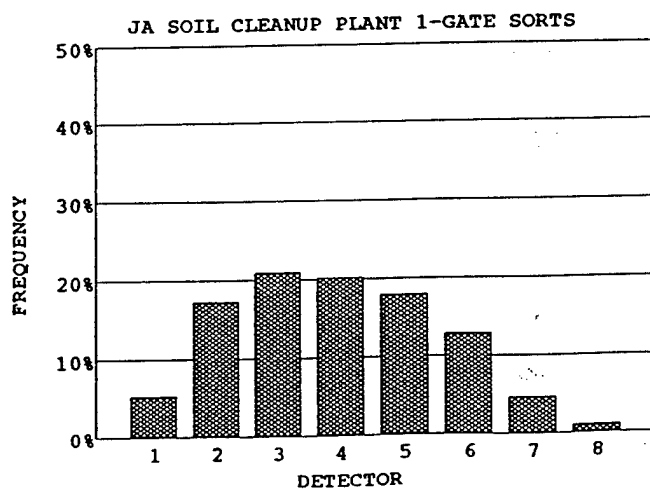
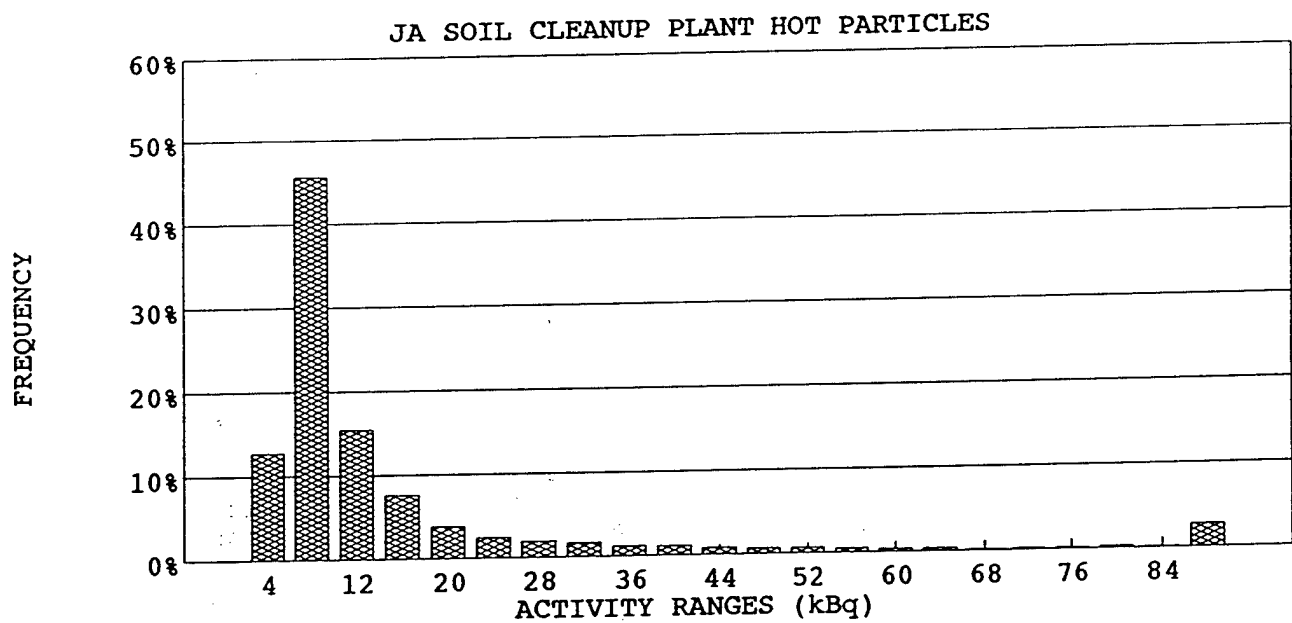
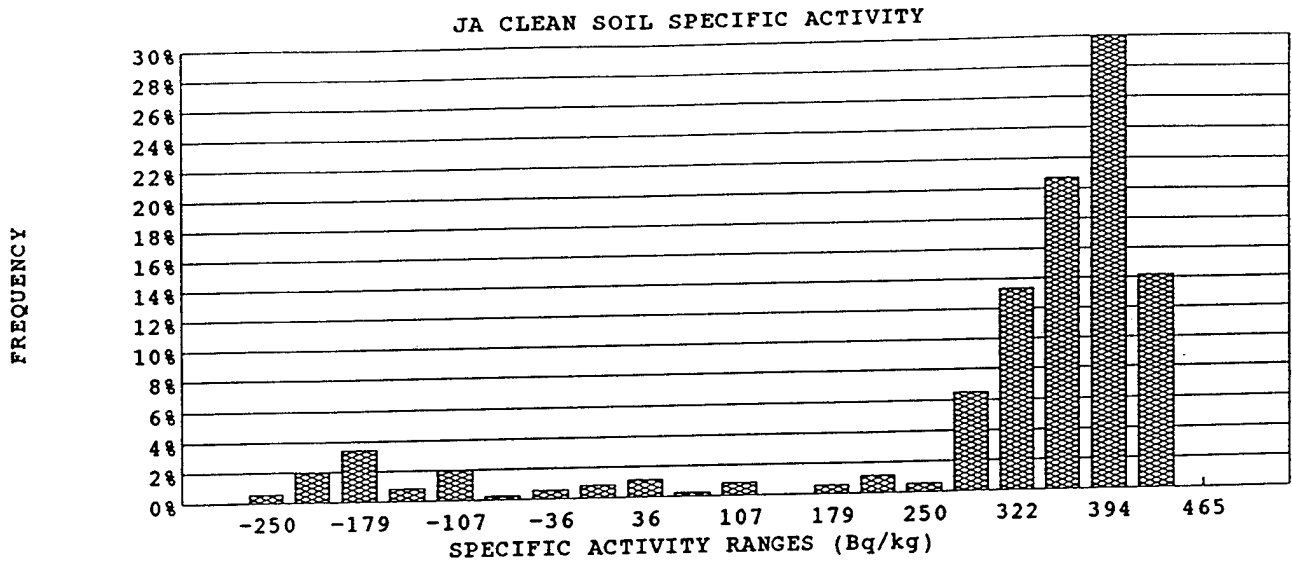
20-SEC PROCESS PERIODS		1,672	UNEXP	PAUSE
ALL 80 ELEMENTS SORT (MD>0&MND=0)		1,519	TIME	TIME
NONE (AD=0 & MD=0 & MND>0)		34	12:25	07:29
SOME (AD>0&0<MD<MNDmax&MND<MNDmax)		119		07:34
UNEXPLAINED RECORDS		0		09:34
0<AD<1kBq & MD>0		0		12:21
AD=0 & MD>0		0		15:28
AD<0 & MD >0		1		15:31
2-SEC COUNT PERIODS		16,720		
2-SEC RECORDS WITH SORTS		4,333		
2-SEC RECORDS WITHOUT SORTS		12,387		
TOTAL PROCESS RECORDS (2-s SORTS and 20-s PERIODS)		6,005		
NONPROCESSING RECORDS (Test, calibration, etc)		17		
2-SEC SORT DETECTORS				
1 DET	2,928 67.57%	5 DET	19	0.44%
2 DET	1,075 24.81%	6 DET	0	0.00%
3 DET	261 6.02%	7 DET	1	0.02%
4 DET	50 1.15%	8 DET	0	0.00%
AVERAGE TIME BETWEEN 2-SEC SORTS		11.4 sec		

FREQUENCY DISTRIBUTIONS

1-GATE SORTS			ACT_ND	NUM	SPEC_A	FREQ%	ACT_P	NUM	FREQ%
DET	SORTS	FREQ%	(Bq)	(#)	(Bq/kg)		(kBq)	(#)	
1	47	2.1%	-14000	7	-250	4.1%	4	332	7.7%
2	268	12.1%	-12000	10	-215	5.9%	8	1,983	45.8%
3	396	17.9%	-10000	10	-179	5.9%	12	704	16.2%
4	425	19.2%	-8000	5	-143	2.9%	16	353	8.1%
5	482	21.8%	-6000	5	-107	2.9%	20	195	4.5%
6	316	14.3%	-4000	3	-72	1.8%	24	132	3.0%
7	240	10.8%	-2000	4	-36	2.4%	28	108	2.5%
8	42	1.9%	0	1	0	0.6%	32	77	1.8%
TOTAL	2,216		2000	1	36	0.6%	36	56	1.3%
			4000	2	72	1.2%	40	41	0.9%
			6000	4	107	2.4%	44	52	1.2%
2-GATE SORTS			8000	1	143	0.6%	48	23	0.5%
9	139	6.6%	10000	1	179	0.6%	52	15	0.3%
10	342	16.2%	12000	5	215	2.9%	56	20	0.5%
11	406	19.2%	14000	16	250	9.4%	60	24	0.6%
12	437	20.6%	16000	16	286	9.4%	64	14	0.3%
13	420	19.8%	18000	45	322	26.5%	68	15	0.3%
14	247	11.7%	20000	34	358	20.0%	72	12	0.3%
15	126	6.0%	22000	0	394	0.0%	76	11	0.3%
TOTAL	2,117		24000	0	429	0.0%	80	6	0.1%
			26000	0	465	0.0%	84	4	0.1%
			>28000	0	0	0.0%	>84	156	3.6%
			TOTAL	170			TOTAL	4,333	
EVENT TYPES		HPE	4,068	MPE	9,119	DISE	108,793		



SORTER 2				20-Apr-94					
SORTER SOIL DENSITY			1.20 tons/m³	BACKGROUND		0.76 ±	0.03 c/s		
SOIL		CONTAMINATED		CLEAN		TOTAL			
MASS TOTAL		75.4 tons		18.4 tons		93.8 tons			
MAXIMUM/SORT		58.1 kg		55.9 kg					
MINIMUM/SORT		0.7 kg		47.5 kg					
VOLUME IN-GROUND		59.8 yd³		14.6 yd³		74.4 yd³			
WEIGHT RECOVERY (CLEAN/(HOT+CLEAN))		19.6%							
ACTIVITY		PARTICLE		DISPERSED + PARTICLE					
				HOT		CLEAN			
TOTAL		88,127 kBq		78,202 kBq		5,817 kBq			
MAXIMUM/SORT		3,569 kBq		2,084 kBq		23 kBq			
MINIMUM/SORT		2 kBq		(6,238)Bq		-18 kBq			
SPECIFIC ACTIVITY				1,037 Bq/kg		316 Bq/kg			
SORTS									
20-SEC PROCESS PERIODS				1,678		UNEXP PAUSE			
ALL 80 ELEMENTS SORT (MD>0&MND=0)				1,339		TIME TIME			
NONE (AD=0 & MD=0 & MND>0)				87		12:25 07:29			
SOME (AD>0&0<MD<MNDmax&MND<MNDmax)				252		13:07 07:34			
UNEXPLAINED RECORDS				0		09:34			
0<AD<1kBq & MD>0				1		12:21			
AD=0 & MD>0				0		15:31			
AD<0 & MD >0				1					
2-SEC COUNT PERIODS				16,780					
2-SEC RECORDS WITH SORTS				4,622					
2-SEC RECORDS WITHOUT SORTS				12,158					
TOTAL PROCESS RECORDS (2-s SORTS and 20-s PERIODS)				6,300					
NONPROCESSING RECORDS (Test, calibration, etc)				14					
2-SEC SORT DETECTORS									
1 DET		3,228	69.84%	5 DET	10	0.22%			
2 DET		1,095	23.69%	6 DET	0	0.00%			
3 DET		242	5.24%	7 DET	0	0.00%			
4 DET		47	1.02%	8 DET	0	0.00%			
AVERAGE TIME BETWEEN 2-SEC SORTS				10.4 sec					
FREQUENCY DISTRIBUTIONS									
1-GATE SORTS			ACT_ND	NUM	SPEC_A	FREQ%	ACT_P	NUM	FREQ%
DET	SORTS	FREQ%	(Bq)	(#)	(Bq/kg)		(kBq)	(#)	
1	121	5.3%	-14000	2	-250	0.6%	4	587	12.7%
2	398	17.3%	-12000	7	-215	2.0%	8	2,108	45.6%
3	482	20.9%	-10000	12	-179	3.4%	12	712	15.4%
4	465	20.2%	-8000	3	-143	0.8%	16	350	7.6%
5	412	17.9%	-6000	7	-107	2.0%	20	175	3.8%
6	295	12.8%	-4000	1	-72	0.3%	24	111	2.4%
7	105	4.6%	-2000	2	-36	0.6%	28	85	1.8%
8	24	1.0%	0	3	0	0.8%	32	75	1.6%
TOTAL	2,302		2000	4	36	1.1%	36	55	1.2%
			4000	1	72	0.3%	40	51	1.1%
			6000	3	107	0.8%	44	37	0.8%
2-GATE SORTS			8000	0	143	0.0%	48	30	0.6%
DET	SORTS	FREQ%	10000	2	179	0.6%	52	29	0.6%
9	275	11.9%	12000	4	215	1.1%	56	24	0.5%
10	466	20.1%	14000	2	250	0.6%	60	14	0.3%
11	532	22.9%	16000	23	286	6.5%	64	14	0.3%
12	417	18.0%	18000	47	322	13.3%	68	6	0.1%
13	396	17.1%	20000	73	358	20.7%	72	8	0.2%
14	191	8.2%	22000	107	394	30.3%	76	9	0.2%
15	43	1.9%	24000	50	429	14.2%	80	11	0.2%
TOTAL	2,320		26000	0	465	0.0%	84	6	0.1%
			>28000	0	0	0.0%	>84	125	2.7%
			TOTAL	353			TOTAL	4,622	
EVENT TYPES		HPE	4,356	MPE	4,801	DISE	98,743		



WORK HISTORY - JA SOIL CLEANUP PLANT

21-Apr-94

WORK DAY START	06:00 AM	WORK DAY END	16:30 PM
LUNCH START	11:00 AM	TIME LOST DURING LUNCH	0.0 HR

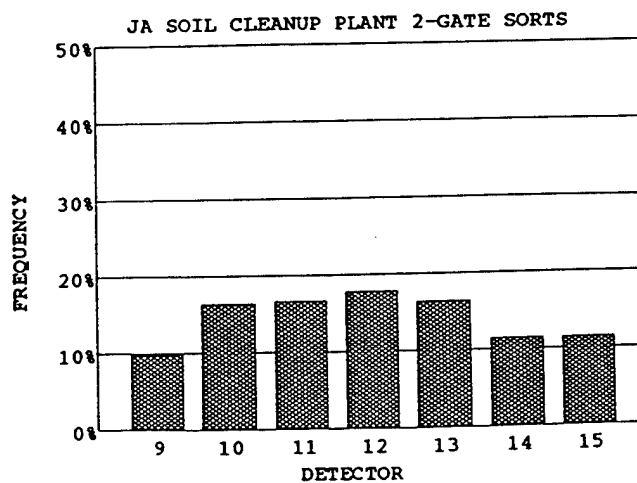
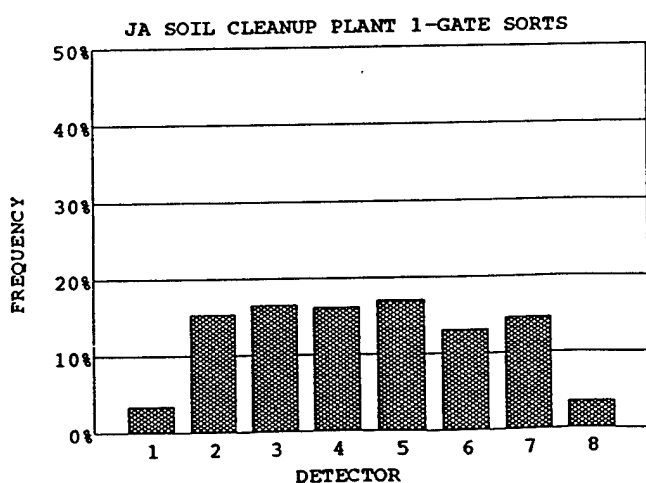
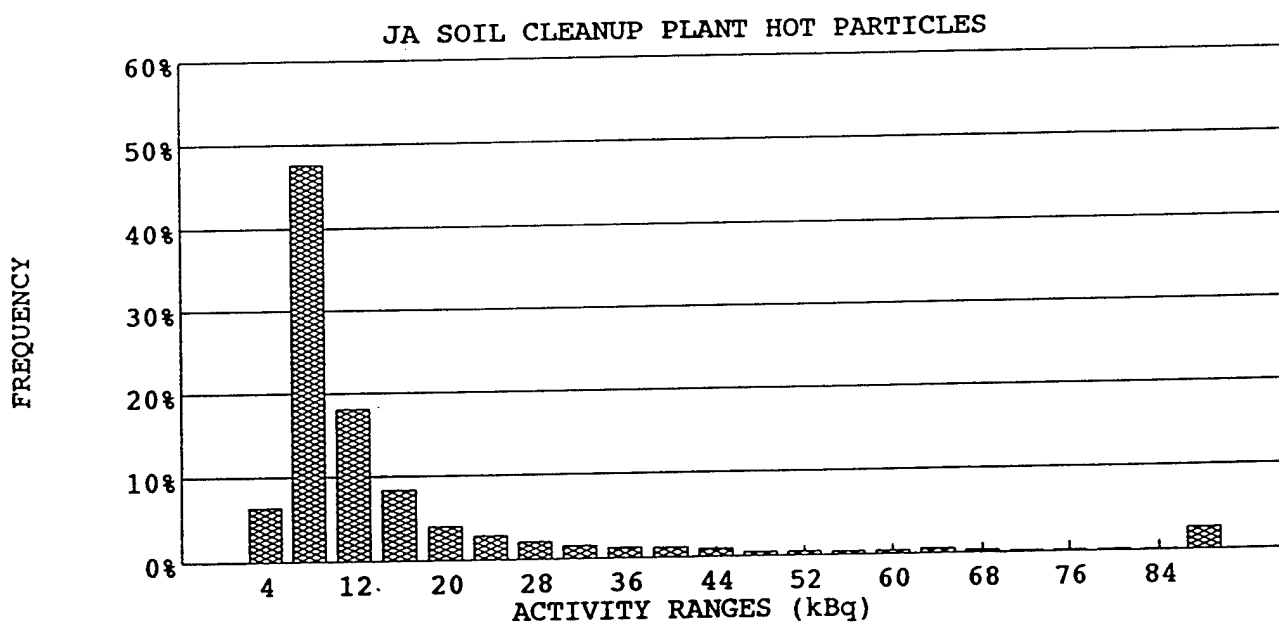
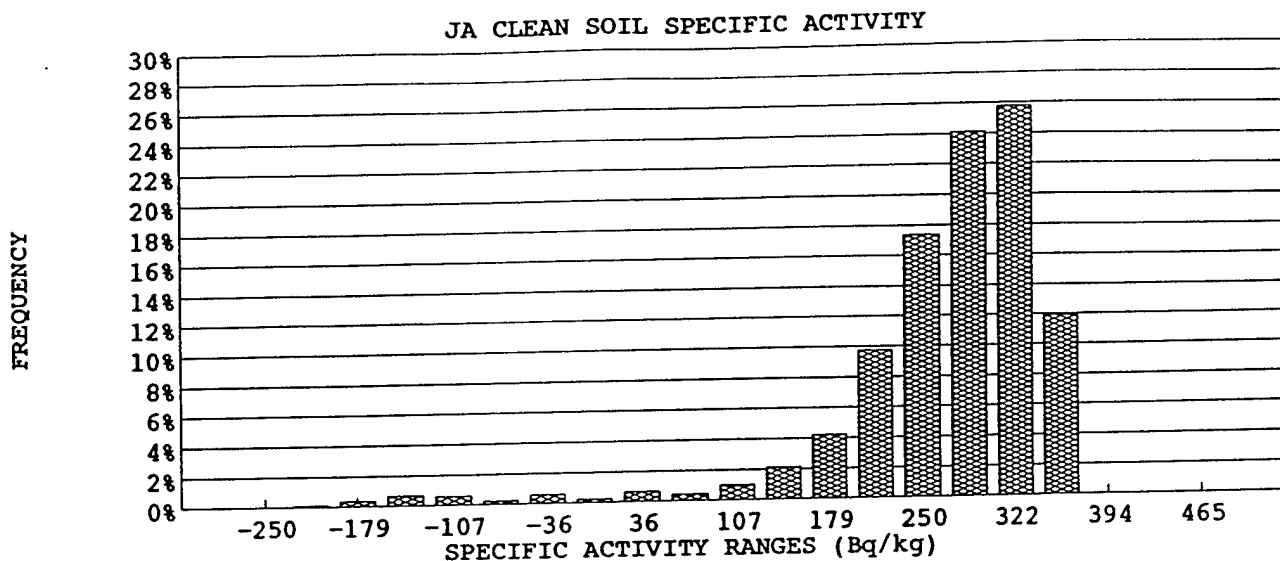
	SORTER 1	SORTER 2	SORTER 3	SORTER 4	TOTAL (sorter hours)
WORK HOURS	10.5 hr	10.5 hr	10.5 hr	10.5 hr	42.0 hr
SORTER AVAILABLE HOURS	10.1 hr	10.1 hr	0.0 hr	0.0 hr	20.2 hr
SORTER START-UP	06:15	06:15	NA	NA	
START SOIL PROCESSING	06:33	06:33	NA	NA	
TIME REQUIRED TO START-UP	0.3 hr	0.3 hr	0.0 hr	0.0 hr	0.6 hr
SORTER SHUT-DOWN	16:20	16:20	NA	NA	
END SOIL PROCESSING	16:07	16:05	NA	NA	
TIME REQUIRED TO SHUT DOWN	0.2 hr	0.2 hr	0.0 hr	0.0 hr	0.5 hr
ACTUAL PROCESS HOURS	9.4 hr	9.3 hr	0.0 hr	0.0 hr	18.7 hr
DOWN-TIME	0.7 hr	0.8 hr	0.0 hr	0.0 hr	1.4 hr
SYSTEM PAUSE	0.2 hr	0.2 hr	0.0 hr	0.0 hr	0.4 hr
SORTER NONAVAILABLE TIME	0.4 hr	0.4 hr	10.0 hr	10.0 hr	20.8 hr
AUTHORIZED DELAY TIME	0.0 hr	0.0 hr	10.0 hr	10.0 hr	20.0 hr
PLANT PERFORMANCE					92.8%
PRODUCTIVITY					44.6%

PRODUCTIVITY

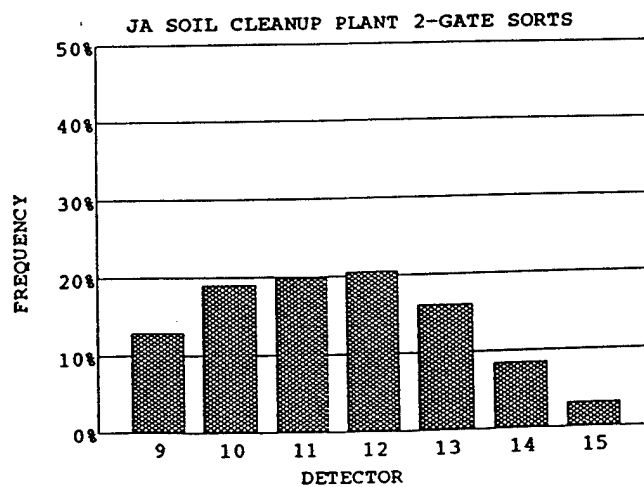
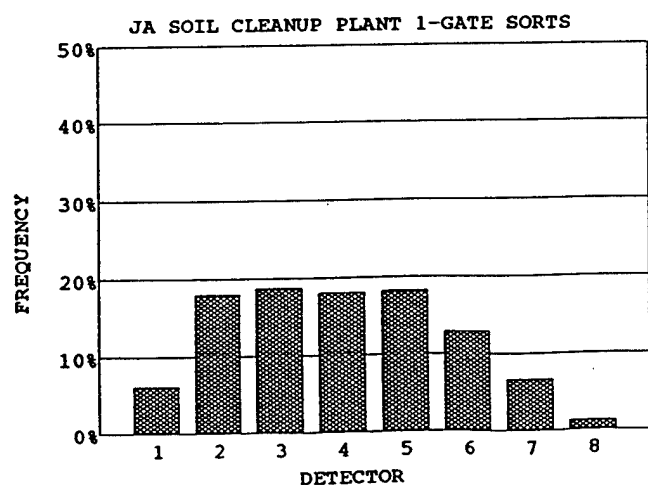
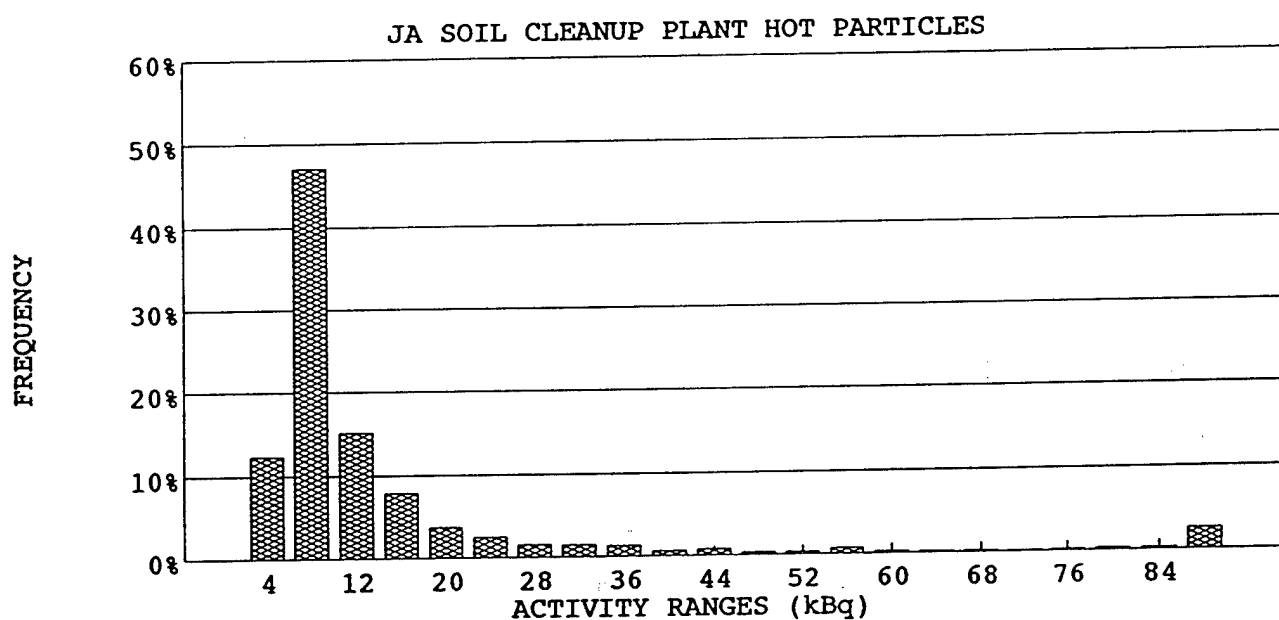
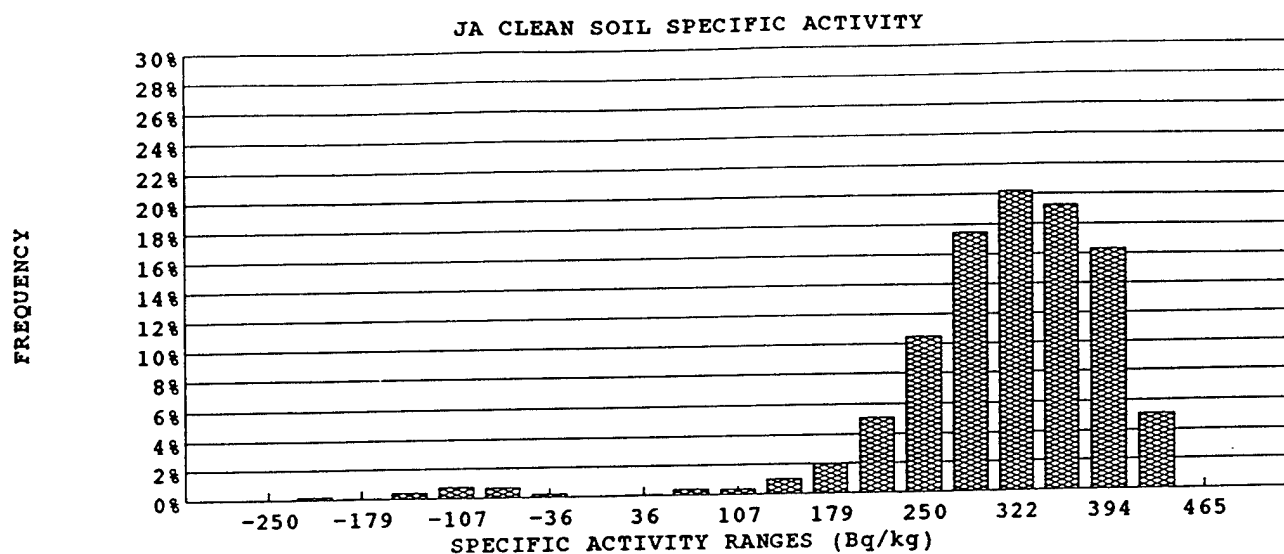
Date	21-Apr-94	Excused Delays for day (sorter-hrs)	20 hr
Contract day (from 6 Sep)	184	Excused delays for contract (sorter-hrs)	3,110 hr
Current Contract week	31	Excused delay days (plant-days)	78 days
		Excused delay months (plant-month)	2.99 months
Soil production for Day	188 MT		
Cumulative Soil Production for Week	746 MT	Percent of contract completed	40.8%
Total Soil production for contract		Tons Ahead or Behind Schedule	1,786 MT
Since 6 Sep 93	39,232 MT	Days ahead or behind schedule	6 days
Since 6 Aug 93	40,823 MT		
Total Soil production for project	67,110 MT		

MT = metric tons

SORTER 1										21-Apr-94	
SORTER SOIL DENSITY				1.20 tons/m ³		BACKGROUND				0.67 ± 0.02 c/s	
SOIL				CONTAMINATED		CLEAN		TOTAL			
MASS TOTAL				45.9 tons		48.5 tons		94.5 tons			
MAXIMUM/SORT				55.9 kg		55.9 kg					
MINIMUM/SORT				0.7 kg		44.0 kg					
VOLUME IN-GROUND				36.4 yd ³		38.5 yd ³		74.9 yd ³			
WEIGHT RECOVERY (CLEAN/(HOT+CLEAN))				51.4%							
ACTIVITY				PARTICLE		HOT		DISPERSED + PARTICLE CLEAN			
TOTAL				61,798 kBq		48,337 kBq		12,665 kBq			
MAXIMUM/SORT				1,616 kBq		1,143 kBq		20 kBq			
MINIMUM/SORT				2 kBq		0 Bq		-14 kBq			
SPECIFIC ACTIVITY						1,052 Bq/kg		261 Bq/kg			
SORTS											
20-SEC PROCESS PERIODS						1,690		UNEXP		PAUSE	
ALL 80 ELEMENTS SORT (MD>0&MND=0)						787		TIME		TIME	
NONE (AD=0 & MD=0 & MND>0)						116		None		13:36	
SOME (AD>0&0<MD<MNDmax&MND<MNDmax)						787				15:17	
UNEXPLAINED RECORDS						0					
0<AD<1kBq & MD>0						0					
AD=0 & MD>0						0					
AD<0 & MD>0						0					
2-SEC COUNT PERIODS						16,900					
2-SEC RECORDS WITH SORTS						3,439					
2-SEC RECORDS WITHOUT SORTS						13,461					
TOTAL PROCESS RECORDS (2-s SORTS and 20-s PERIODS)						5,129					
NONPROCESSING RECORDS (Test, calibration, etc)						1					
2-SEC SORT DETECTORS											
1 DET		2,506	72.87%	5 DET		7	0.20%				
2 DET		745	21.66%	6 DET		0	0.00%				
3 DET		155	4.51%	7 DET		0	0.00%				
4 DET		26	0.76%	8 DET		0	0.00%				
AVERAGE TIME BETWEEN 2-SEC SORTS						13.5 sec					
FREQUENCY DISTRIBUTIONS											
1-GATE SORTS			ACT_ND	NUM	SPEC_A	FREQ%	ACT_P	NUM	FREQ%		
DET	SORTS	FREQ%	(Bq)	(#)	(Bq/kg)		(kBq)	(#)			
1	61	3.5%	-14000	0	-250	0.0%	4	220	6.4%		
2	272	15.4%	-12000	1	-215	0.1%	8	1,637	47.6%		
3	293	16.6%	-10000	3	-179	0.3%	12	621	18.1%		
4	286	16.2%	-8000	6	-143	0.7%	16	290	8.4%		
5	301	17.1%	-6000	5	-107	0.6%	20	139	4.0%		
6	231	13.1%	-4000	2	-72	0.2%	24	97	2.8%		
7	259	14.7%	-2000	5	-36	0.6%	28	71	2.1%		
8	62	3.5%	0	2	0	0.2%	32	54	1.6%		
TOTAL	1,765		2000	6	36	0.7%	36	43	1.3%		
			4000	4	72	0.4%	40	39	1.1%		
			6000	9	107	1.0%	44	32	0.9%		
2-GATE SORTS			8000	19	143	2.1%	48	16	0.5%		
DET	SORTS	FREQ%	10000	38	179	4.2%	52	15	0.4%		
9	164	9.8%	12000	88	215	9.7%	56	14	0.4%		
10	275	16.4%	14000	157	250	17.4%	60	14	0.4%		
11	278	16.6%	16000	218	286	24.1%	64	18	0.5%		
12	299	17.9%	18000	233	322	25.8%	68	10	0.3%		
13	274	16.4%	20000	108	358	11.9%	72	7	0.2%		
14	192	11.5%	22000	0	394	0.0%	76	5	0.1%		
15	192	11.5%	24000	0	429	0.0%	80	5	0.1%		
TOTAL	1,674		26000	0	465	0.0%	84	2	0.1%		
			>28000	0	0	0.0%	>84	90	2.6%		
			TOTAL	904			TOTAL	3,439			
EVENT TYPES			HPE	3,383	MPE	4,500	DISE	57,872			



SORTER 2				21-Apr-94					
SORTER SOIL DENSITY		1.20 tons/m ³		BACKGROUND		0.76 ± 0.02 c/s			
SOIL		CONTAMINATED		CLEAN		TOTAL			
MASS TOTAL		30.9 tons		63.0 tons		93.9 tons			
MAXIMUM/SORT		55.9 kg		55.9 kg					
MINIMUM/SORT		0.7 kg		46.8 kg					
VOLUME IN-GROUND		24.5 yd ³		50.0 yd ³		74.4 yd ³			
WEIGHT RECOVERY (CLEAN/(HOT+CLEAN))		67.1%							
ACTIVITY				DISPERSED + PARTICLE					
		PARTICLE		HOT		CLEAN			
TOTAL		60,648 kBq		38,431 kBq		19,113 kBq			
MAXIMUM/SORT		1,379 kBq		783 kBq		23 kBq			
MINIMUM/SORT		2 kBq		0 Bq		-13 kBq			
SPECIFIC ACTIVITY				1,245 Bq/kg		303 Bq/kg			
SORTS									
20-SEC PROCESS PERIODS				1,680		UNEXP PAUSE			
ALL 80 ELEMENTS SORT (MD>0&MND=0)				517		TIME TIME			
NONE (AD=0 & MD=0 & MND>0)				263		10:47 13:36			
SOME (AD>0&0<MD<MNDmax&MND<MNDmax)				900		15:14 15:17			
UNEXPLAINED RECORDS				0					
0<AD<1kBq & MD>0				2					
AD=0 & MD>0				0					
AD<0 & MD >0				0					
2-SEC COUNT PERIODS				16,800					
2-SEC RECORDS WITH SORTS				3,373					
2-SEC RECORDS WITHOUT SORTS				13,427					
TOTAL PROCESS RECORDS (2-s SORTS and 20-s PERIODS)				5,053					
NONPROCESSING RECORDS (Test, calibration, etc)				5					
2-SEC SORT DETECTORS									
1 DET		2,396	71.03%	5 DET	10	0.30%			
2 DET		759	22.50%	6 DET	0	0.00%			
3 DET		176	5.22%	7 DET	0	0.00%			
4 DET		32	0.95%	8 DET	0	0.00%			
AVERAGE TIME BETWEEN 2-SEC SORTS				14.0 sec					
FREQUENCY DISTRIBUTIONS									
1-GATESORTS			ACT_ND	NUM	SPEC_A	FREQ%	ACT_P	NUM	FREQ%
DET	SORTS	FREQ%	(Bq)	(#)	(Bq/kg)		(kBq)	(#)	
1	104	6.1%	-14000	0	-250	0.0%	4	416	12.3%
2	306	18.0%	-12000	2	-215	0.2%	8	1,589	47.1%
3	320	18.8%	-10000	1	-179	0.1%	12	510	15.1%
4	308	18.1%	-8000	5	-143	0.4%	16	268	7.9%
5	311	18.3%	-6000	9	-107	0.8%	20	127	3.8%
6	219	12.9%	-4000	8	-72	0.7%	24	84	2.5%
7	113	6.6%	-2000	3	-36	0.3%	28	53	1.6%
8	22	1.3%	0	0	0	0.0%	32	51	1.5%
TOTAL			2000	1	36	0.1%	36	45	1.3%
			4000	5	72	0.4%	40	22	0.7%
2-GATESORTS			6000	4	107	0.3%	44	26	0.8%
DET	SORTS	FREQ%	8000	12	143	1.0%	48	12	0.4%
9	216	12.9%	10000	23	179	2.0%	52	12	0.4%
10	318	19.0%	12000	59	215	5.1%	56	23	0.7%
11	332	19.9%	14000	122	250	10.4%	60	9	0.3%
12	343	20.5%	16000	204	286	17.5%	64	5	0.1%
13	268	16.0%	18000	236	322	20.2%	68	6	0.2%
14	142	8.5%	20000	225	358	19.3%	72	4	0.1%
15	51	3.1%	22000	190	394	16.3%	76	6	0.2%
TOTAL			24000	59	429	5.1%	80	8	0.2%
			26000	0	465	0.0%	84	10	0.3%
			>28000	0	0	0.0%	>84	87	2.6%
			TOTAL	1,168			TOTAL	3,373	
EVENT TYPES		HPE	3,331	MPE	2,170	DISE	38,667		



WORK HISTORY - JA SOIL CLEANUP PLANT

22-Apr-94

WORK DAY START	06:00 AM	WORK DAY END	16:30 PM
LUNCH START	11:00 AM	TIME LOST DURING LUNCH	0.5 HR

	SORTER 1	SORTER 2	SORTER 3	SORTER 4	TOTAL (sorter hours)
WORK HOURS	10.0 hr	10.0 hr	10.0 hr	10.0 hr	40.0 hr
SORTER AVAILABLE HOURS	9.6 hr	9.6 hr	0.0 hr	0.0 hr	19.2 hr
SORTER START-UP	06:15	06:15	NA	NA	
START SOIL PROCESSING	06:36	06:36	NA	NA	
TIME REQUIRED TO START-UP	0.4 hr	0.4 hr	0.0 hr	0.0 hr	0.7 hr
SORTER SHUT-DOWN	16:20	16:20	NA	NA	
END SOIL PROCESSING	16:05	16:04	NA	NA	
TIME REQUIRED TO SHUT DOWN	0.2 hr	0.3 hr	0.0 hr	0.0 hr	0.5 hr
ACTUAL PROCESS HOURS	8.2 hr	8.1 hr	0.0 hr	0.0 hr	16.3 hr
DOWN-TIME	1.4 hr	1.4 hr	0.0 hr	0.0 hr	2.8 hr
SYSTEM PAUSE	1.2 hr	1.2 hr	0.0 hr	0.0 hr	2.4 hr
SORTER NONAVAILABLE TIME	0.4 hr	0.4 hr	10.0 hr	10.0 hr	20.8 hr
AUTHORIZED DELAY TIME	0.0 hr	0.0 hr	10.0 hr	10.0 hr	20.0 hr
PLANT PERFORMANCE					85.2%
PRODUCTIVITY					40.8%

PRODUCTIVITY

Date	22-Apr-94	Excused Delays for day (sorter-hrs)	20 hr
Contract day (from 6 Sep)	185	Excused delays for contract (sorter-hrs)	3,130 hr
Current Contract week	31	Excused delay days (plant-days)	78 days
		Excused delay months (plant-month)	3.01 months
Soil production for Day	164 MT		
Cumulative Soil Production for Week	910 MT	Percent of contract completed	41.0%
Total Soil production for contract		Tons Ahead or Behind Schedule	1,792 MT
Since 6 Sep 93	39,396 MT	Days ahead or behind schedule	6 days
Since 6 Aug 93	40,987 MT		
Total Soil production for project	67,274 MT		

MT = metric tons

SORTER 1

22-Apr-94

SORTER SOIL DENSITY		1.20 tons/m ³	BACKGROUND		0.66 ± 0.04 c/s
SOIL			CONTAMINATED	CLEAN	TOTAL
MASS TOTAL			61.4 tons	20.9 tons	82.3 tons
MAXIMUM/SORT			58.1 kg	55.9 kg	
MINIMUM/SORT			0.7 kg	44.7 kg	
VOLUME IN-GROUND			48.7 yd ³	16.6 yd ³	65.2 yd ³
WEIGHT RECOVERY (CLEAN/(HOT+CLEAN))			25.4%		

ACTIVITY

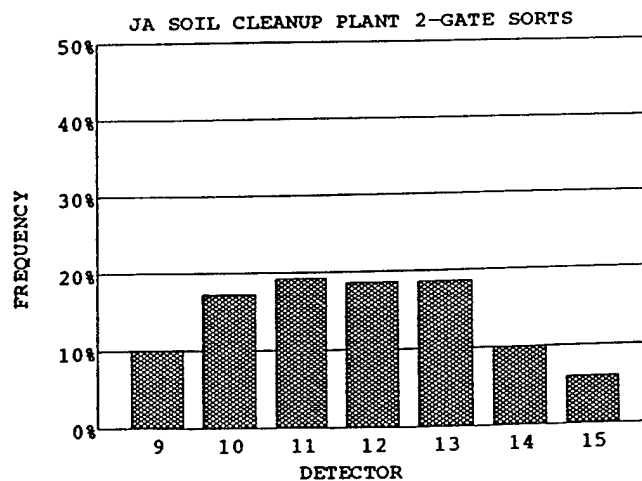
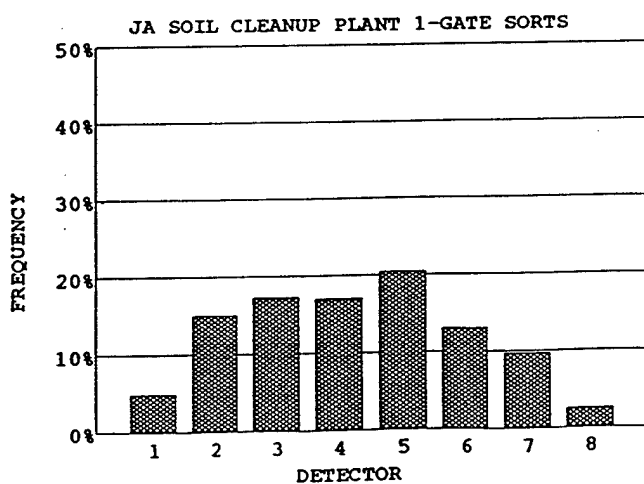
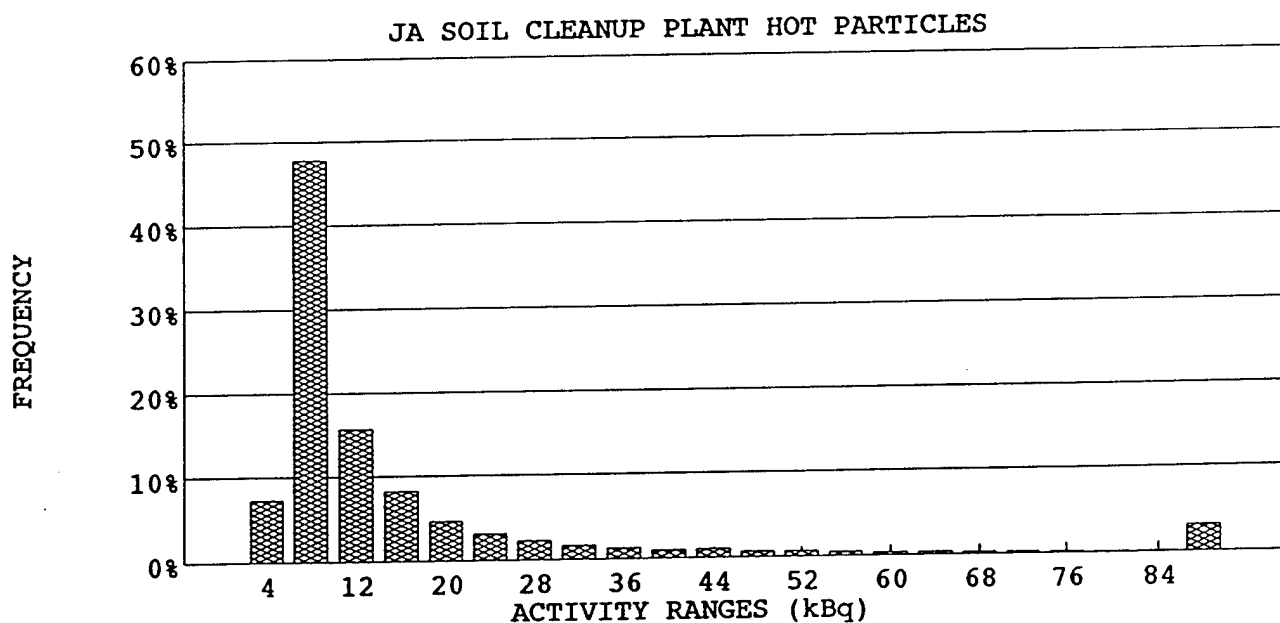
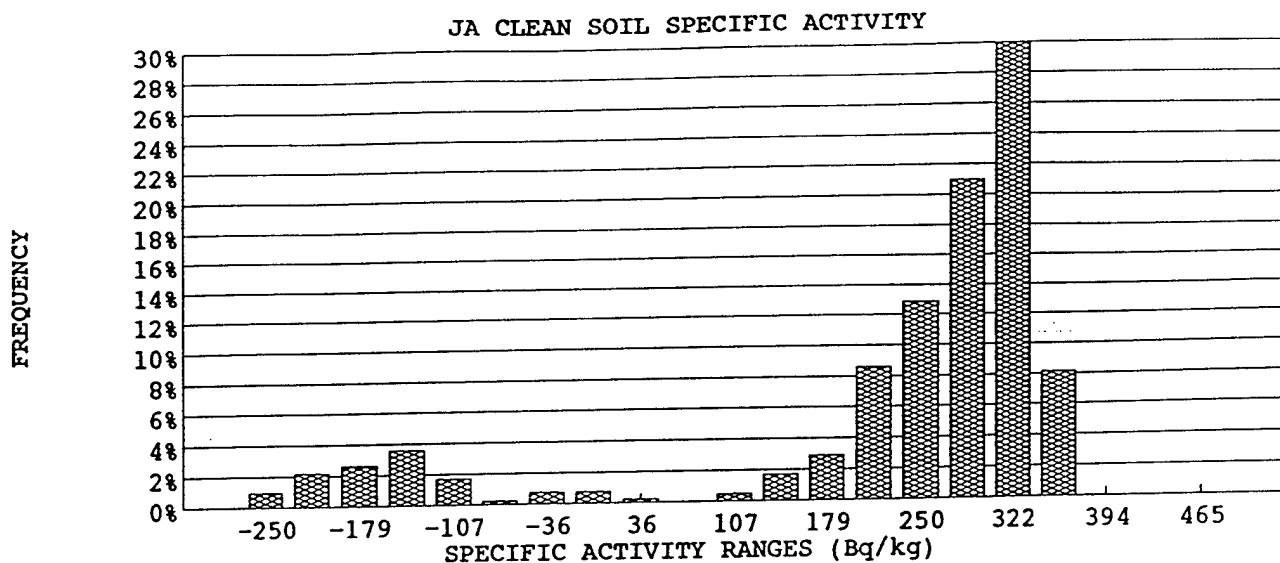
	PARTICLE	HOT	DISPERSED + PARTICLE CLEAN
TOTAL	93,266 kBq	75,608 kBq	5,195 kBq
MAXIMUM/SORT	2,509 kBq	1,671 kBq	19 kBq
MINIMUM/SORT	2 kBq	(8,083)Bq	-19 kBq
SPECIFIC ACTIVITY		1,231 Bq/kg	249 Bq/kg

SORTS

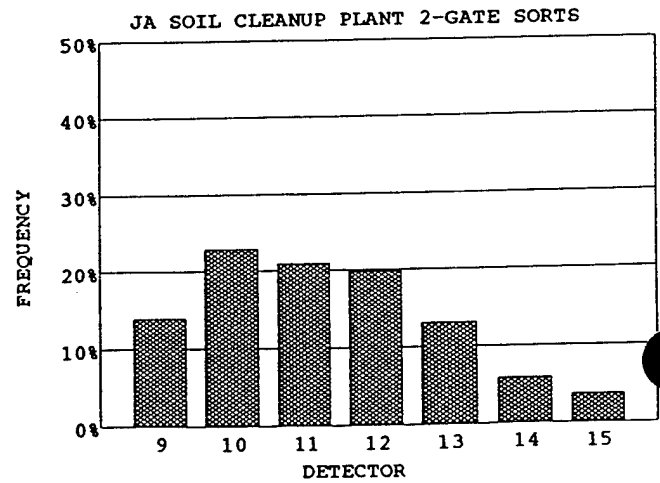
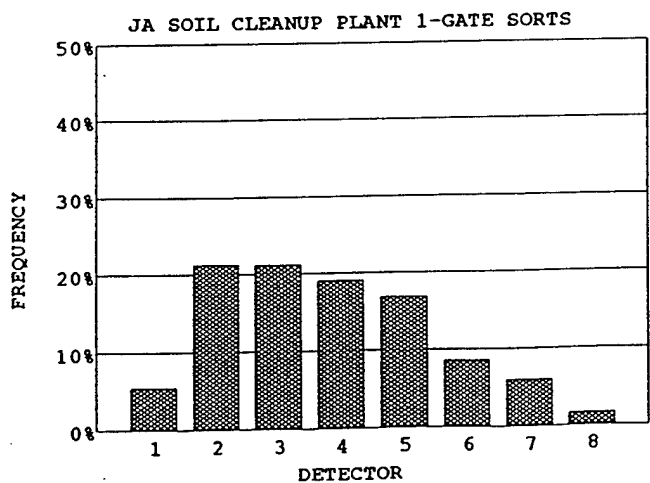
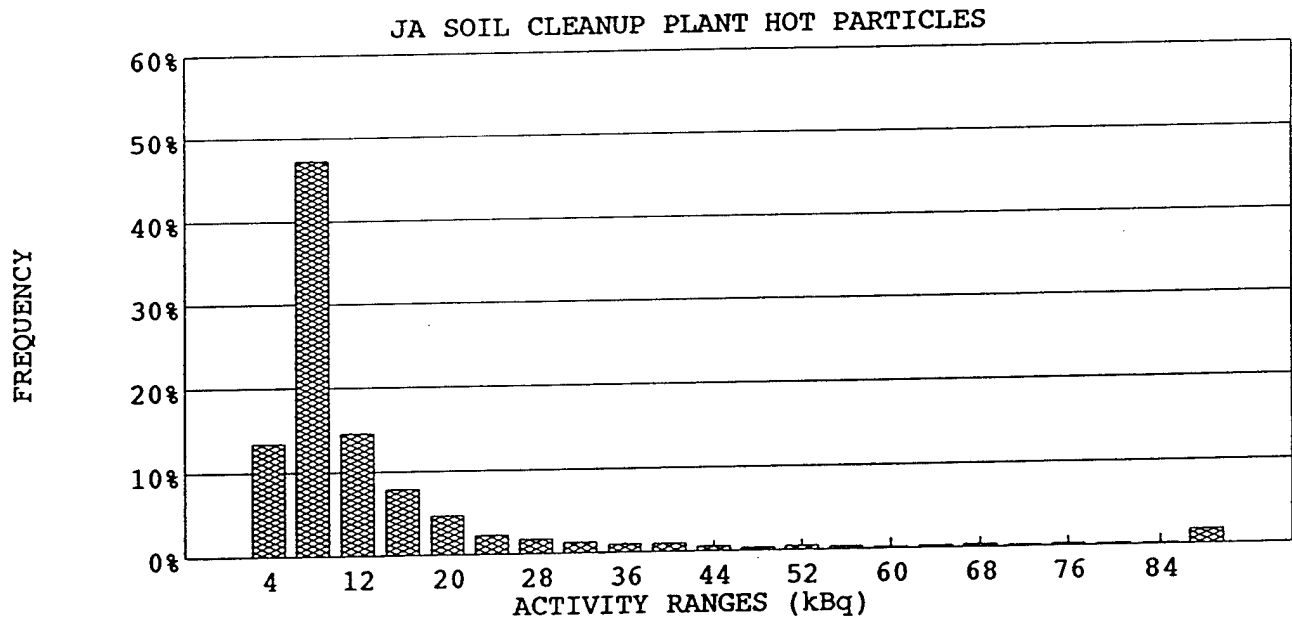
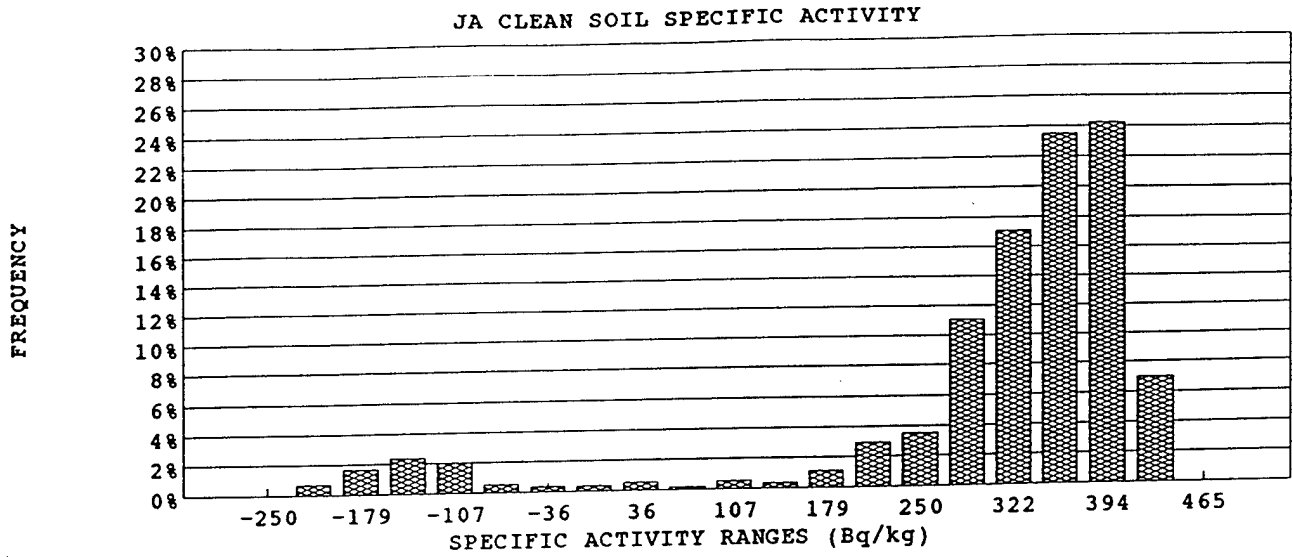
20-SEC PROCESS PERIODS		1,472	UNEXP	PAUSE
ALL 80 ELEMENTS SORT (MD>0&MND=0)	1,079		TIME	TIME
NONE (AD=0 & MD=0 & MND>0)	48		11:46	10:08
SOME (AD>0&0<MD<MNDmax&MND<MNDmax)	345			10:52
UNEXPLAINED RECORDS	0			12:30
0<AD<1kBq & MD>0	0			15:09
AD=0 & MD>0	0			
AD<0 & MD >0	1			
2-SEC COUNT PERIODS		14,720		
2-SEC RECORDS WITH SORTS	4,635			
2-SEC RECORDS WITHOUT SORTS	10,085			
TOTAL PROCESS RECORDS (2-s SORTS and 20-s PERIODS)		6,107		
NONPROCESSING RECORDS (Test, calibration, etc)		26		
2-SEC SORT DETECTORS				
1 DET	3,257 70.27%	5 DET	18	0.39%
2 DET	1,053 22.72%	6 DET	0	0.00%
3 DET	256 5.52%	7 DET	3	0.06%
4 DET	51 1.10%	8 DET	0	0.00%
AVERAGE TIME BETWEEN 2-SEC SORTS	9.0 sec			

FREQUENCY DISTRIBUTIONS

1-GATES SORTS			ACT_ND	NUM	SPEC_A	FREQ%	ACT_P	NUM	FREQ%
DET	SORTS	FREQ%	(Bq)	(#)	(Bq/kg)		(kBq)	(#)	
1	116	4.9%	-14000	4	-250	1.0%	4	340	7.3%
2	357	15.0%	-12000	9	-215	2.1%	8	2,214	47.8%
3	412	17.3%	-10000	11	-179	2.6%	12	727	15.7%
4	407	17.1%	-8000	15	-143	3.6%	16	382	8.2%
5	487	20.5%	-6000	7	-107	1.7%	20	213	4.6%
6	311	13.1%	-4000	1	-72	0.2%	24	143	3.1%
7	230	9.7%	-2000	3	-36	0.7%	28	102	2.2%
8	59	2.5%	0	3	0	0.7%	32	75	1.6%
TOTAL	2,379		2000	1	36	0.2%	36	58	1.3%
			4000	0	72	0.0%	40	42	0.9%
			6000	2	107	0.5%	44	47	1.0%
2-GATES SORTS			8000	7	143	1.7%	48	30	0.6%
DET	SORTS	FREQ%	10000	12	179	2.9%	52	28	0.6%
9	227	10.1%	12000	36	215	8.6%	56	21	0.5%
10	391	17.3%	14000	54	250	12.9%	60	16	0.3%
11	434	19.2%	16000	88	286	21.0%	64	15	0.3%
12	421	18.7%	18000	132	322	31.5%	68	12	0.3%
13	421	18.7%	20000	34	358	8.1%	72	12	0.3%
14	225	10.0%	22000	0	394	0.0%	76	8	0.2%
15	137	6.1%	24000	0	429	0.0%	80	5	0.1%
TOTAL	2,256		26000	0	465	0.0%	84	3	0.1%
			>28000	0	0	0.0%	>84	142	3.1%
			TOTAL	419			TOTAL	4,635	
EVENT TYPES	HPE	4,397	MPE	8,568	DISE	74,899			



SORTER 2		22-Apr-94							
SORTER SOIL DENSITY		1.20 tons/m ³		BACKGROUND		0.75 ± 0.04 c/s			
SOIL		CONTAMINATED		CLEAN		TOTAL			
MASS TOTAL		53.9 tons		28.1 tons		82.0 tons			
MAXIMUM/SORT		58.1 kg		55.9 kg					
MINIMUM/SORT		0.7 kg		47.5 kg					
VOLUME IN-GROUND		42.7 yd ³		22.3 yd ³		65.0 yd ³			
WEIGHT RECOVERY (CLEAN/(HOT+CLEAN))		34.3%							
ACTIVITY		PARTICLE		DISPERSED + PARTICLE					
		HOT		CLEAN					
TOTAL		56,353 kBq		53,254 kBq		8,915 kBq			
MAXIMUM/SORT		740 kBq		544 kBq		23 kBq			
MINIMUM/SORT		2 kBq		(7,082)Bq		-13 kBq			
SPECIFIC ACTIVITY				989 Bq/kg		317 Bq/kg			
SORTS						UNEXP PAUSE			
20-SEC PROCESS PERIODS				1,466		TIME TIME			
ALL 80 ELEMENTS SORT (MD>0&MND=0)		947				11:46 10:09			
NONE (AD=0 & MD=0 & MND>0)		129				10:52			
SOME (AD>0&0<MD<MNDmax&MND<MNDmax)		390				12:29			
UNEXPLAINED RECORDS		0				15:09			
0<AD<1kBq & MD>0		0							
AD=0 & MD>0		0							
AD<0 & MD >0		1							
2-SEC COUNT PERIODS				14,660					
2-SEC RECORDS WITH SORTS		4,110							
2-SEC RECORDS WITHOUT SORTS		10,550							
TOTAL PROCESS RECORDS (2-s SORTS and 20-s PERIODS)				5,576					
NONPROCESSING RECORDS (Test, calibration, etc)				26					
2-SEC SORT DETECTORS									
1 DET		2,929	71.27%	5 DET	11	0.27%			
2 DET		921	22.41%	6 DET	0	0.00%			
3 DET		209	5.09%	7 DET	0	0.00%			
4 DET		40	0.97%	8 DET	0	0.00%			
AVERAGE TIME BETWEEN 2-SEC SORTS		10.0 sec							
FREQUENCY DISTRIBUTIONS									
1-GATE SORTS		ACT_ND	NUM	SPEC_A	FREQ%	ACT_P	NUM	FREQ%	
DET	SORTS	FREQ%	(Bq)	(#)	(Bq/kg)	(kBq)	(#)		
1	111	5.5%	-14000	0	-250	0.0%	4	551	13.4%
2	431	21.3%	-12000	4	-215	0.7%	8	1,942	47.3%
3	429	21.2%	-10000	9	-179	1.7%	12	599	14.6%
4	387	19.1%	-8000	13	-143	2.4%	16	326	7.9%
5	341	16.8%	-6000	11	-107	2.0%	20	191	4.6%
6	173	8.5%	-4000	3	-72	0.6%	24	93	2.3%
7	121	6.0%	-2000	2	-36	0.4%	28	70	1.7%
8	32	1.6%	0	2	0	0.4%	32	51	1.2%
TOTAL	2,025		2000	3	36	0.6%	36	40	1.0%
			4000	1	72	0.2%	40	38	0.9%
			6000	3	107	0.6%	44	24	0.6%
2-GATE SORTS									
DET	SORTS	FREQ%	8000	2	143	0.4%	48	13	0.3%
9	289	13.9%	10000	6	179	1.1%	52	19	0.5%
10	477	22.9%	12000	16	215	2.9%	56	15	0.4%
11	436	20.9%	14000	19	250	3.5%	60	7	0.2%
12	413	19.8%	16000	60	286	11.0%	64	11	0.3%
13	272	13.0%	18000	93	322	17.1%	68	15	0.4%
14	122	5.9%	20000	128	358	23.5%	72	8	0.2%
15	76	3.6%	22000	132	394	24.2%	76	12	0.3%
TOTAL	2,085		24000	38	429	7.0%	80	6	0.1%
			26000	0	465	0.0%	84	7	0.2%
			>28000	0	0	0.0%	>84	72	1.8%
			TOTAL	545			TOTAL	4,110	
EVENT TYPES		HPE	4,019	MPE	3,345	DISE	69,722		



WORK HISTORY - JA SOIL CLEANUP PLANT

23-Apr-94

WORK DAY START	05:00 AM	WORK DAY END	15:30 PM
LUNCH START	12:30 AM	TIME LOST DURING LUNCH	0.5 HR

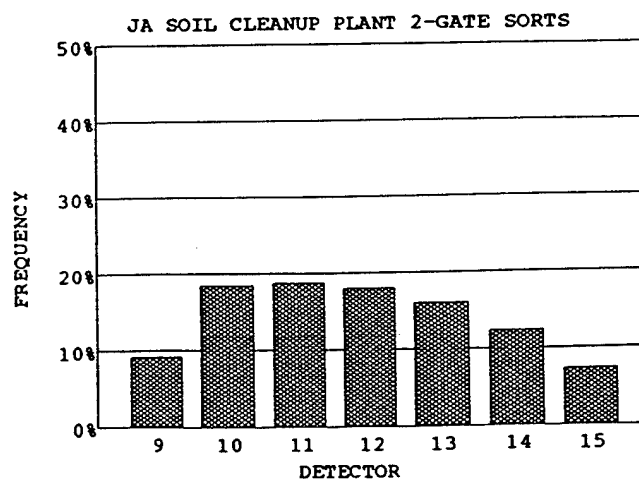
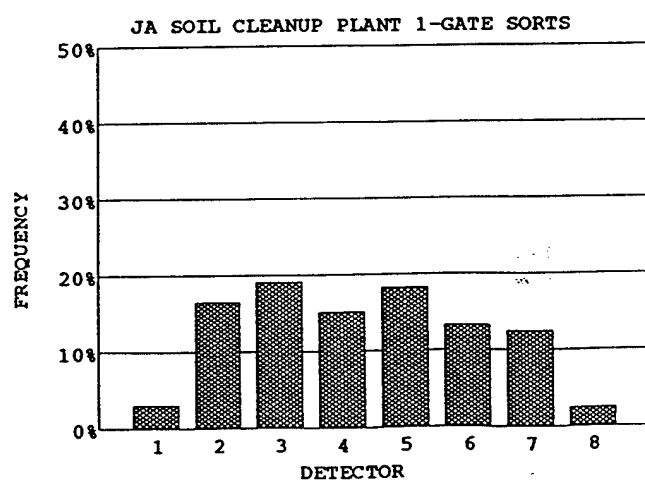
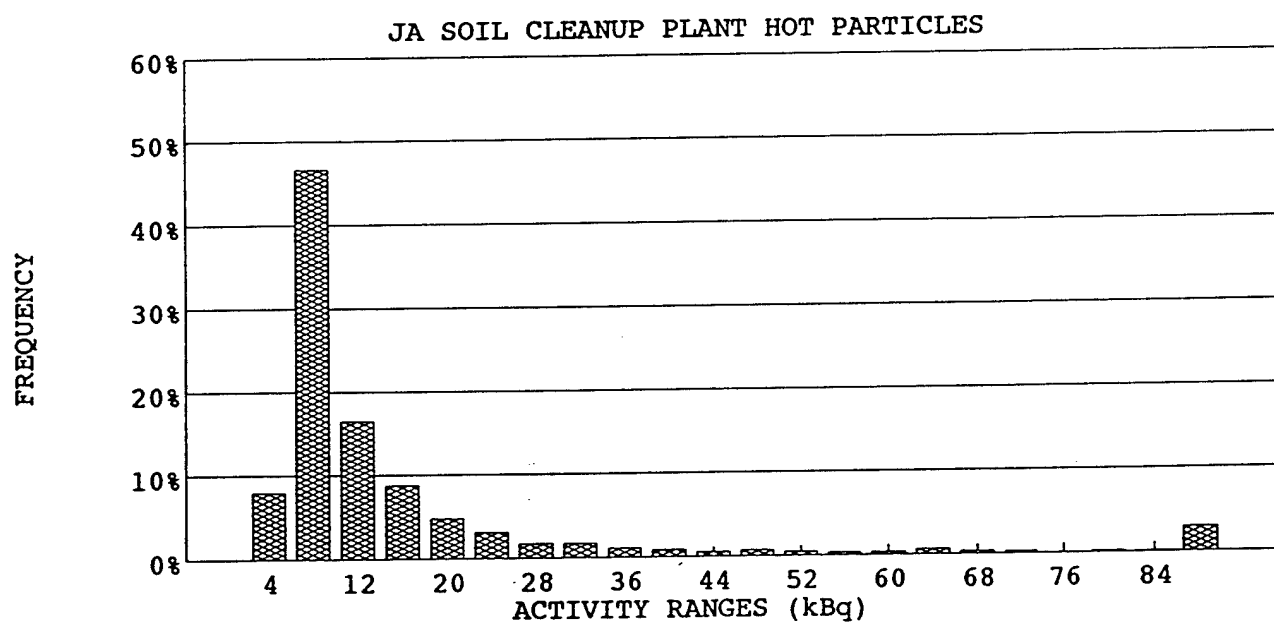
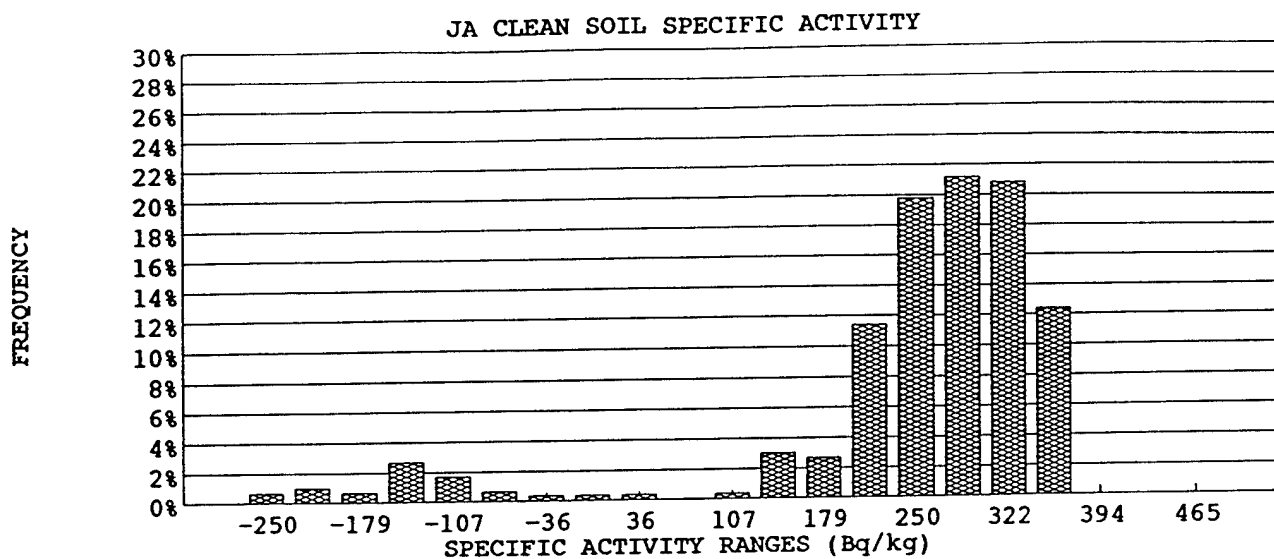
	SORTER 1	SORTER 2	SORTER 3	SORTER 4	TOTAL (sorter hours)
WORK HOURS	10.0 hr	10.0 hr	10.0 hr	10.0 hr	40.0 hr
SORTER AVAILABLE HOURS	7.3 hr	7.3 hr	0.0 hr	0.0 hr	14.7 hr
SORTER START-UP	05:05	05:05	NA	NA	
START SOIL PROCESSING	05:26	05:27	NA	NA	
TIME REQUIRED TO START-UP	0.4 hr	0.4 hr	0.0 hr	0.0 hr	0.7 hr
SORTER SHUT-DOWN	12:25	12:25	NA	NA	
END SOIL PROCESSING	12:07	12:08	NA	NA	
TIME REQUIRED TO SHUT DOWN	0.3 hr	0.3 hr	0.0 hr	0.0 hr	0.6 hr
ACTUAL PROCESS HOURS	4.5 hr	4.5 hr	0.0 hr	0.0 hr	9.1 hr
DOWN-TIME	2.8 hr	2.8 hr	0.0 hr	0.0 hr	5.6 hr
SYSTEM PAUSE	2.2 hr	2.2 hr	0.0 hr	0.0 hr	4.3 hr
SORTER NONAVAILABLE TIME	2.7 hr	2.7 hr	10.0 hr	10.0 hr	25.3 hr
AUTHORIZED DELAY TIME	2.0 hr	2.0 hr	10.0 hr	10.0 hr	24.0 hr
PLANT PERFORMANCE					61.8%
PRODUCTIVITY					22.7%

PRODUCTIVITY

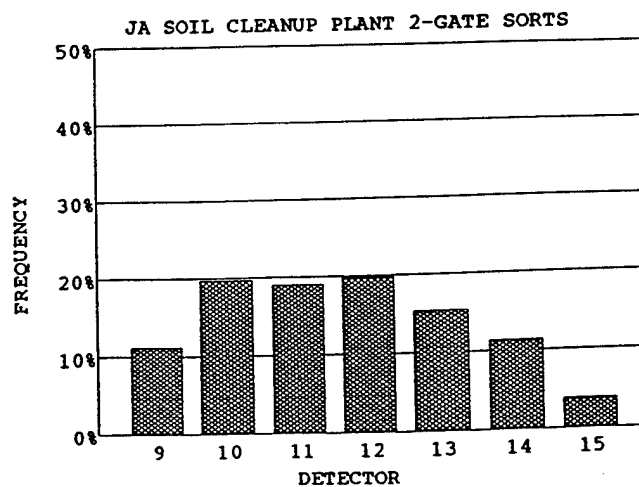
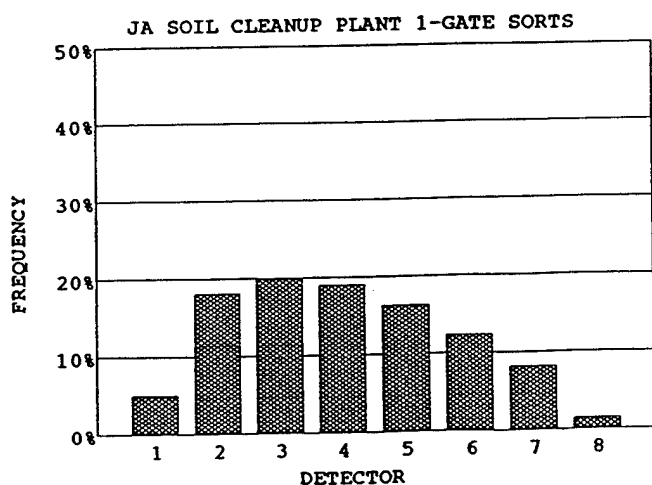
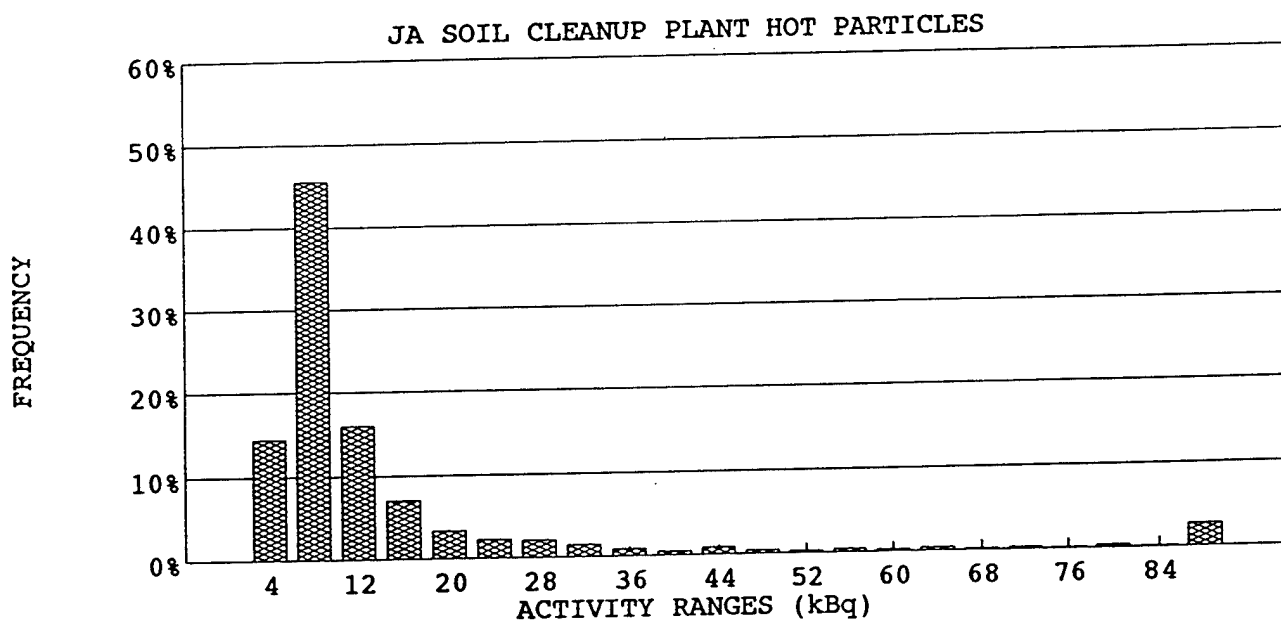
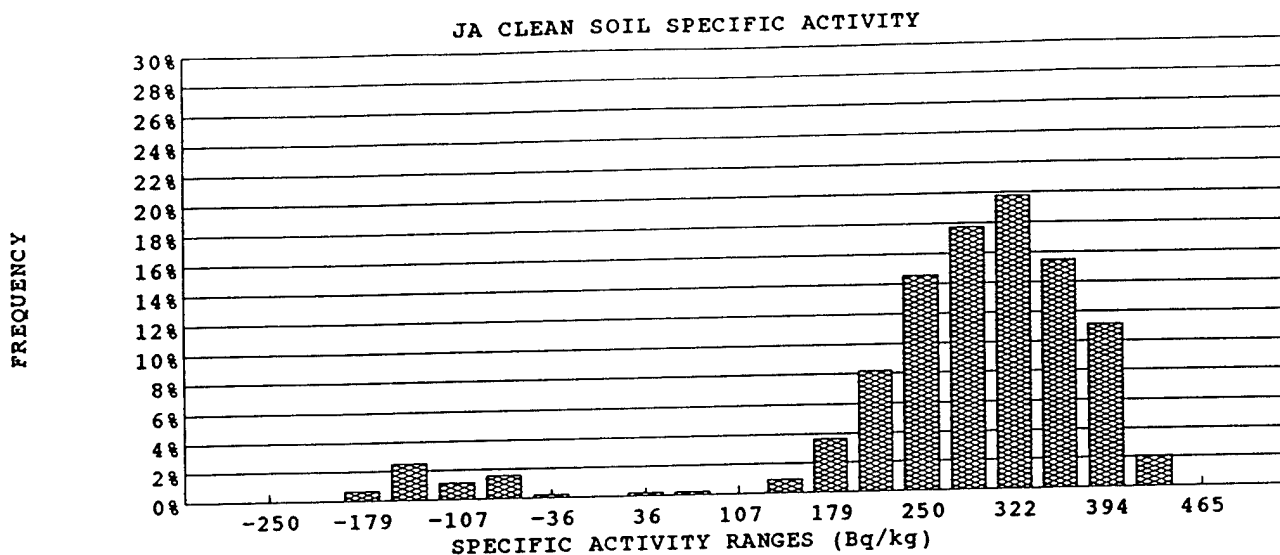
Date	23-Apr-94	Excused Delays for day (sorter-hrs)	24 hr
Contract day (from 6 Sep)	186	Excused delays for contract (sorter-hrs)	3,154 hr
Current Contract week	31	Excused delay days (plant-days)	79 days
		Excused delay months (plant-month)	3.03 months
Soil production for Day	91 MT		
Cumulative Soil Production for Week	1,001 MT	Percent of contract completed	41.1%
Total Soil production for contract		Tons Ahead or Behind Schedule	1,756 MT
Since 6 Sep 93	39,487 MT	Days ahead or behind schedule	6 days
Since 6 Aug 93	41,078 MT		
Total Soil production for project	67,365 MT		

MT = metric tons

SORTER 1		23-Apr-94			
SORTER SOIL DENSITY		1.20 tons/m ³		BACKGROUND	
				0.65 ± 0.03 c/s	
SOIL		CONTAMINATED		CLEAN	TOTAL
MASS TOTAL		29.8 tons		15.9 tons	45.6 tons
MAXIMUM/SORT		55.9 kg		55.9 kg	
MINIMUM/SORT		0.7 kg		48.9 kg	
VOLUME IN-GROUND		23.6 yd ³		12.6 yd ³	36.2 yd ³
WEIGHT RECOVERY (CLEAN/(HOT+CLEAN))		34.7%			
ACTIVITY		DISPERSED + PARTICLE			
		PARTICLE	HOT	CLEAN	
TOTAL		40,250 kBq	35,100 kBq	3,801 kBq	
MAXIMUM/SORT		1,104 kBq	671 kBq	20 kBq	
MINIMUM/SORT		3 kBq	0 Bq	-17 kBq	
SPECIFIC ACTIVITY			1,179 Bq/kg	240 Bq/kg	
SORTS					
20-SEC PROCESS PERIODS				816	UNEXP PAUSE
ALL 80 ELEMENTS SORT (MD>0&MND=0)		522			TIME TIME
NONE (AD=0 & MD=0 & MND>0)		51			None 07:07
SOME (AD>0&0<MD<MNDmax&MND<MNDmax)		243			10:34
UNEXPLAINED RECORDS		0			11:45
0<AD<1kBq & MD>0		0			
AD=0 & MD>0		0			
AD<0 & MD >0		0			
2-SEC COUNT PERIODS				8,160	
2-SEC RECORDS WITH SORTS		2,295			
2-SEC RECORDS WITHOUT SORTS		5,865			
TOTAL PROCESS RECORDS (2-s SORTS and 20-s PERIODS)				3,111	
NONPROCESSING RECORDS (Test, calibration, etc)				4	
2-SEC SORT DETECTORS					
1 DET	1,587 69.15%	5 DET	11	0.48%	
2 DET	539 23.49%	6 DET	0	0.00%	
3 DET	130 5.66%	7 DET	1	0.04%	
4 DET	28 1.22%	8 DET	0	0.00%	
AVERAGE TIME BETWEEN 2-SEC SORTS		10.3 sec			
FREQUENCY DISTRIBUTIONS					
1-GATES SORTS		ACT_ND	NUM	SPEC_A	FREQ%
DET	SORTS	(Bq)	(#)	(Bq/kg)	
1	35	3.0%	-14000	2	-250 0.7%
2	193	16.5%	-12000	3	-215 1.0%
3	223	19.1%	-10000	2	-179 0.7%
4	177	15.1%	-8000	8	-143 2.7%
5	213	18.2%	-6000	5	-107 1.7%
6	155	13.3%	-4000	2	-72 0.7%
7	145	12.4%	-2000	1	-36 0.3%
8	28	2.4%	0	1	0 0.3%
TOTAL	1,169		2000	1	36 0.3%
			4000	0	72 0.0%
			6000	1	107 0.3%
2-GATES SORTS			8000	9	143 3.0%
DET	SORTS	FREQ%	10000	8	179 2.7%
9	103	9.1%	12000	34	215 11.4%
10	207	18.4%	14000	59	250 19.8%
11	211	18.7%	16000	63	286 21.1%
12	203	18.0%	18000	62	322 20.8%
13	181	16.1%	20000	37	358 12.4%
14	139	12.3%	22000	0	394 0.0%
15	82	7.3%	24000	0	429 0.0%
TOTAL	1,126		26000	0	465 0.0%
			>28000	0	0 0.0%
			TOTAL	298	
EVENT TYPES		HPE	2,201	MPE	3,919
				DISE	36,474



SORTER 2				23-Apr-94					
SORTER SOIL DENSITY			1.20 tons/m ³	BACKGROUND		0.75 ±	0.03 c/s		
SOIL			CONTAMINATED	CLEAN	TOTAL				
MASS TOTAL			21.8 tons	23.8 tons	45.6 tons				
MAXIMUM/SORT			55.9 kg	55.9 kg					
MINIMUM/SORT			0.7 kg	46.8 kg					
VOLUME IN-GROUND			17.3 yd ³	18.9 yd ³	36.2 yd ³				
WEIGHT RECOVERY (CLEAN/(HOT+CLEAN))			52.2%						
ACTIVITY			DISPERSED + PARTICLE						
			PARTICLE	HOT	CLEAN				
TOTAL			62,756 kBq	34,923 kBq	6,402 kBq				
MAXIMUM/SORT			12,305 kBq	7,989 kBq	23 kBq				
MINIMUM/SORT			2 kBq	0 Bq	-11 kBq				
SPECIFIC ACTIVITY				1,602 Bq/kg	269 Bq/kg				
SORTS				816		UNEXP	PAUSE		
20-SEC PROCESS PERIODS						TIME	TIME		
ALL 80 ELEMENTS SORT (MD>0&MND=0)				380		None	07:07		
NONE (AD=0 & MD=0 & MND>0)				156			10:35		
SOME (AD>0&0<MD<MNDmax&MND<MNDmax)				280			11:45		
UNEXPLAINED RECORDS				0					
0<AD<1kBq & MD>0				0					
AD=0 & MD>0				0					
AD<0 & MD >0				0					
2-SEC COUNT PERIODS				8,160					
2-SEC RECORDS WITH SORTS				2,057					
2-SEC RECORDS WITHOUT SORTS				6,103					
TOTAL PROCESS RECORDS (2-s SORTS and 20-s PERIODS)				2,873					
NONPROCESSING RECORDS (Test, calibration, etc)				4					
2-SEC SORT DETECTORS									
1 DET		1,474	71.66%	5 DET	11	0.53%			
2 DET		460	22.36%	6 DET	0	0.00%			
3 DET		96	4.67%	7 DET	1	0.05%			
4 DET		16	0.78%	8 DET	0	0.00%			
AVERAGE TIME BETWEEN 2-SEC SORTS				11.1 sec					
FREQUENCY DISTRIBUTIONS									
1-GATE SORTS			ACT_ND	NUM	SPEC_A	FREQ%	ACT_P	NUM	FREQ%
DET	SORTS	FREQ%	(Bq)	(#)	(Bq/kg)		(kBq)	(#)	
1	50	5.0%	-14000	0	-250	0.0%	4	296	14.4%
2	181	18.1%	-12000	0	-215	0.0%	8	937	45.6%
3	198	19.8%	-10000	3	-179	0.7%	12	328	15.9%
4	190	19.0%	-8000	11	-143	2.5%	16	146	7.1%
5	162	16.2%	-6000	5	-107	1.1%	20	69	3.4%
6	123	12.3%	-4000	7	-72	1.6%	24	47	2.3%
7	81	8.1%	-2000	1	-36	0.2%	28	44	2.1%
8	14	1.4%	0	0	0	0.0%	32	31	1.5%
TOTAL	999		2000	1	36	0.2%	36	18	0.9%
			4000	1	72	0.2%	40	10	0.5%
			6000	0	107	0.0%	44	18	0.9%
2-GATE SORTS			8000	4	143	0.9%	48	8	0.4%
9	118	11.2%	10000	16	179	3.6%	52	6	0.3%
10	208	19.7%	12000	36	215	8.2%	56	9	0.4%
11	201	19.0%	14000	64	250	14.5%	60	5	0.2%
12	209	19.8%	16000	78	286	17.7%	64	9	0.4%
13	162	15.3%	18000	87	322	19.8%	68	3	0.1%
14	120	11.3%	20000	68	358	15.5%	72	5	0.2%
15	40	3.8%	22000	49	394	11.1%	76	2	0.1%
TOTAL	1,058		24000	9	429	2.0%	80	7	0.3%
			26000	0	465	0.0%	84	2	0.1%
			>28000	0	0	0.0%	>84	57	2.8%
			TOTAL	440			TOTAL	2,057	
EVENT TYPES		HPE	2,006	MPE	1,689	DISE	27,493		



WORK HISTORY - JA SOIL CLEANUP PLANT

25-Apr-94

WORK DAY START	06:00 AM	WORK DAY END	18:00 PM
LUNCH START	11:00 AM	TIME LOST DURING LUNCH	0.5 HR

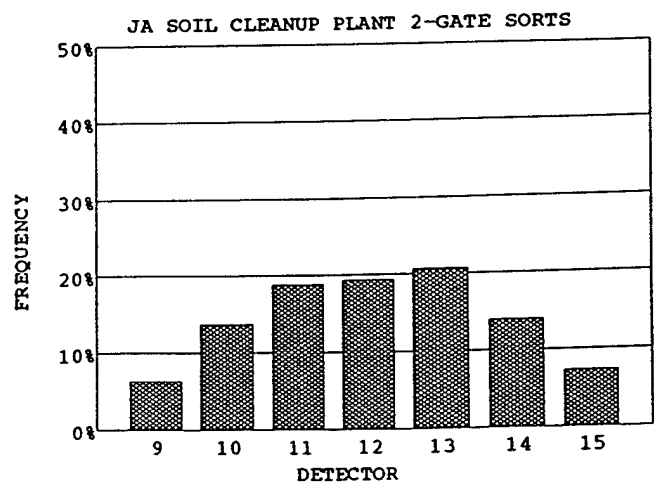
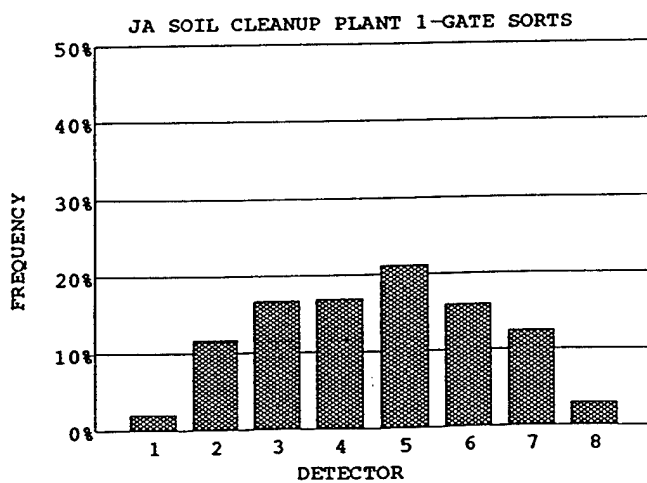
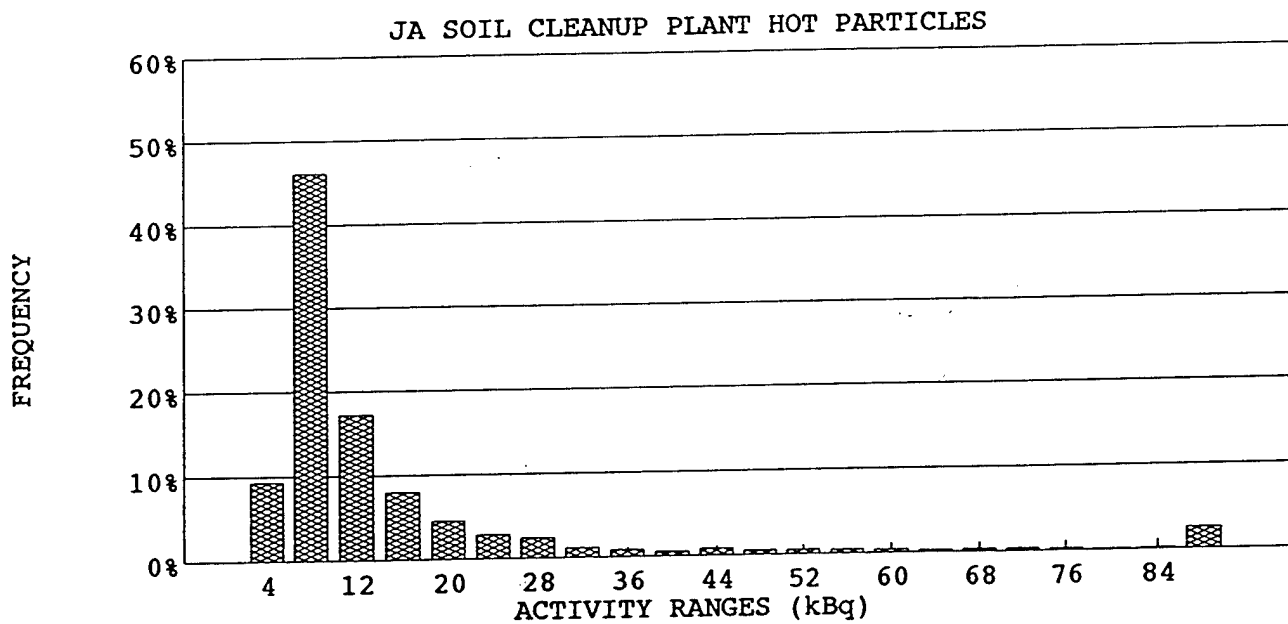
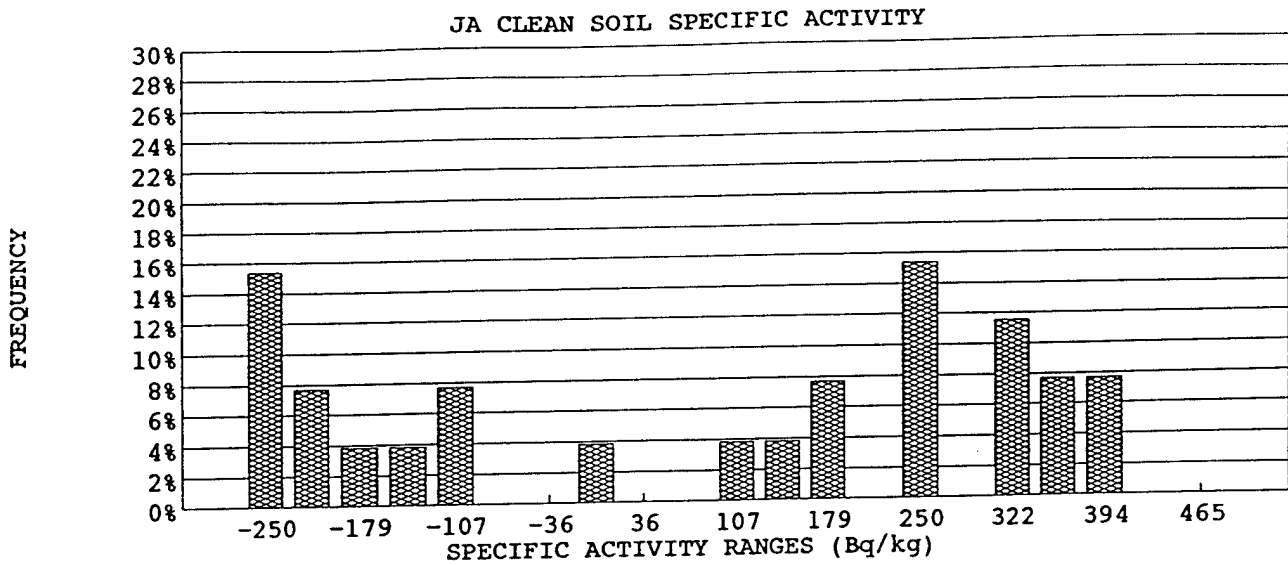
	SORTER 1	SORTER 2	SORTER 3	SORTER 4	TOTAL (sorter hours)
WORK HOURS	11.5 hr	11.5 hr	11.5 hr	11.5 hr	46.0 hr
SORTER AVAILABLE HOURS	3.5 hr	3.5 hr	0.0 hr	0.0 hr	7.0 hr
SORTER START-UP	06:30	06:30	NA	NA	
START SOIL PROCESSING	06:42	06:42	NA	NA	
TIME REQUIRED TO START-UP	0.2 hr	0.2 hr	0.0 hr	0.0 hr	0.4 hr
SORTER SHUT-DOWN	17:45	17:45	NA	NA	
END SOIL PROCESSING	17:24	17:24	NA	NA	
TIME REQUIRED TO SHUT DOWN	0.3 hr	0.3 hr	0.0 hr	0.0 hr	0.7 hr
ACTUAL PROCESS HOURS	3.0 hr	3.0 hr	0.0 hr	0.0 hr	6.0 hr
DOWN-TIME	0.5 hr	0.5 hr	0.0 hr	0.0 hr	1.0 hr
SYSTEM PAUSE	0.0 hr	0.0 hr	0.0 hr	0.0 hr	0.0 hr
SORTER NONAVAILABLE TIME	8.0 hr	8.0 hr	10.0 hr	10.0 hr	36.0 hr
AUTHORIZED DELAY TIME	7.0 hr	7.0 hr	10.0 hr	10.0 hr	34.0 hr
PLANT PERFORMANCE					86.0%
PRODUCTIVITY					13.1%

PRODUCTIVITY

Date	25-Apr-94	Excused Delays for day (sorter-hrs)	34 hr
Contract day (from 6 Sep)	187	Excused delays for contract (sorter-hrs)	3,188 hr
Current Contract week	32	Excused delay days (plant-days)	80 days
		Excused delay months (plant-month)	3.07 months
Soil production for Day	61 MT		
Cumulative Soil Production for Week	61 MT	Percent of contract completed	41.1%
Total Soil production for contract		Tons Ahead or Behind Schedule	1,770 MT
Since 6 Sep 93	39,548 MT	Days ahead or behind schedule	6 days
Since 6 Aug 93	41,139 MT		
Total Soil production for project	67,426 MT		

MT = metric tons

SORTER 1				25-Apr-94					
SORTER SOIL DENSITY		1.20 tons/m ³		BACKGROUND		0.66 ± 0.03 c/s			
SOIL		CONTAMINATED		CLEAN		TOTAL			
MASS TOTAL		29.0 tons		1.1 tons		30.1 tons			
MAXIMUM/SORT		58.1 kg		55.9 kg					
MINIMUM/SORT		0.7 kg		41.2 kg					
VOLUME IN-GROUND		23.0 yd ³		0.9 yd ³		23.9 yd ³			
WEIGHT RECOVERY (CLEAN/(HOT+CLEAN))		3.8%							
ACTIVITY				DISPERSED + PARTICLE					
		PARTICLE		HOT		CLEAN			
TOTAL		51,823 kBq		48,070 kBq		156 kBq			
MAXIMUM/SORT		1,364 kBq		886 kBq		21 kBq			
MINIMUM/SORT		2 kBq		0 Bq		-15 kBq			
SPECIFIC ACTIVITY				1,658 Bq/kg		137 Bq/kg			
SORTS									
20-SEC PROCESS PERIODS				539		UNEXP PAUSE			
ALL 80 ELEMENTS SORT (MD>0&MND=0)				518		TIME TIME			
NONE (AD=0 & MD=0 & MND>0)				11		16:39 07:40			
SOME (AD>0&0<MD<MNDmax&MND<MNDmax)				10		08:39			
UNEXPLAINED RECORDS				0		09:11			
0<AD<1kBq & MD>0				0		16:57			
AD=0 & MD>0				1		16:59			
AD<0 & MD >0				0					
2-SEC COUNT PERIODS				5,390					
2-SEC RECORDS WITH SORTS				3,085					
2-SEC RECORDS WITHOUT SORTS				2,305					
TOTAL PROCESS RECORDS (2-s SORTS and 20-s PERIODS)				3,624					
NONPROCESSING RECORDS (Test, calibration, etc)				5					
2-SEC SORT DETECTORS									
1 DET		2,054	66.58%	5 DET	16	0.52%			
2 DET		784	25.41%	6 DET	0	0.00%			
3 DET		189	6.13%	7 DET	0	0.00%			
4 DET		42	1.36%	8 DET	0	0.00%			
AVERAGE TIME BETWEEN 2-SEC SORTS				5.2 sec					
FREQUENCY DISTRIBUTIONS									
1-GATE SORTS			ACT_ND	NUM	SPEC_A	FREQ%	ACT_P	NUM	FREQ%
DET	SORTS	FREQ%	(Bq)	(#)	(Bq/kg)		(kBq)	(#)	
1	32	2.0%	-14000	4	-250	15.4%	4	289	9.4%
2	187	11.7%	-12000	2	-215	7.7%	8	1,424	46.2%
3	268	16.8%	-10000	1	-179	3.8%	12	531	17.2%
4	271	16.9%	-8000	1	-143	3.8%	16	247	8.0%
5	339	21.2%	-6000	2	-107	7.7%	20	141	4.6%
6	256	16.0%	-4000	0	-72	0.0%	24	87	2.8%
7	199	12.4%	-2000	0	-36	0.0%	28	74	2.4%
8	47	2.9%	0	1	0	3.8%	32	37	1.2%
TOTAL	1,599		2000	0	36	0.0%	36	27	0.9%
			4000	0	72	0.0%	40	18	0.6%
2-GATE SORTS			6000	1	107	3.8%	44	27	0.9%
DET	SORTS	FREQ%	8000	1	143	3.8%	48	18	0.6%
9	93	6.3%	10000	2	179	7.7%	52	17	0.6%
10	204	13.7%	12000	0	215	0.0%	56	14	0.5%
11	280	18.8%	14000	4	250	15.4%	60	13	0.4%
12	287	19.3%	16000	0	286	0.0%	64	7	0.2%
13	307	20.7%	18000	3	322	11.5%	68	10	0.3%
14	207	13.9%	20000	2	358	7.7%	72	9	0.3%
15	108	7.3%	22000	2	394	7.7%	76	7	0.2%
TOTAL	1,486		24000	0	429	0.0%	80	3	0.1%
			26000	0	465	0.0%	84	5	0.2%
			>28000	0	0	0.0%	>84	80	2.6%
			TOTAL	26			TOTAL	3,085	
EVENT TYPES		HPE	2,784	MPE	6,492	DISE	32,227		



SORTER 2

25-Apr-94

SORTER SOIL DENSITY		1.20 tons/m ³	BACKGROUND		0.77 ± 0.04 c/s
SOIL			CONTAMINATED	CLEAN	TOTAL
MASS TOTAL			28.3 tons	2.2 tons	30.5 tons
MAXIMUM/SORT			58.1 kg	55.9 kg	
MINIMUM/SORT			0.7 kg	44.7 kg	
VOLUME IN-GROUND			22.4 yd ³	1.7 yd ³	24.2 yd ³
WEIGHT RECOVERY (CLEAN/(HOT+CLEAN))			7.2%		

ACTIVITY

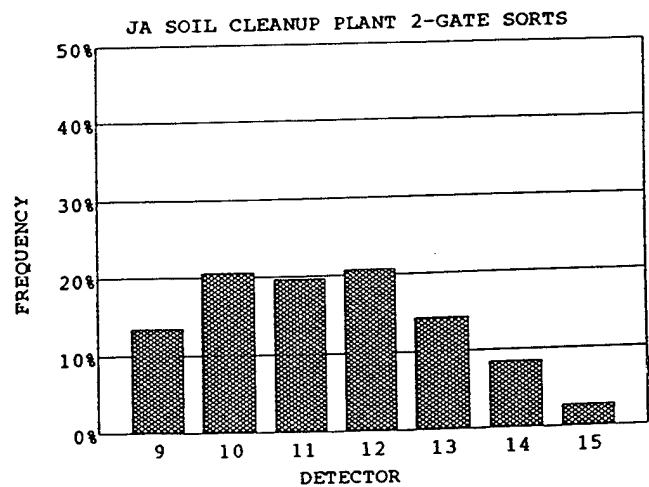
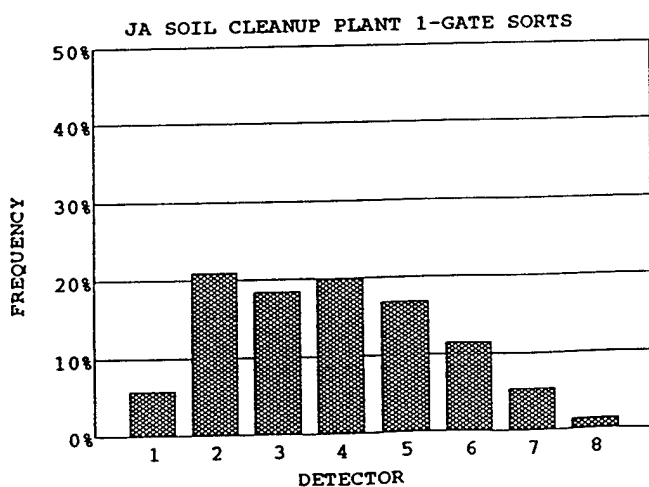
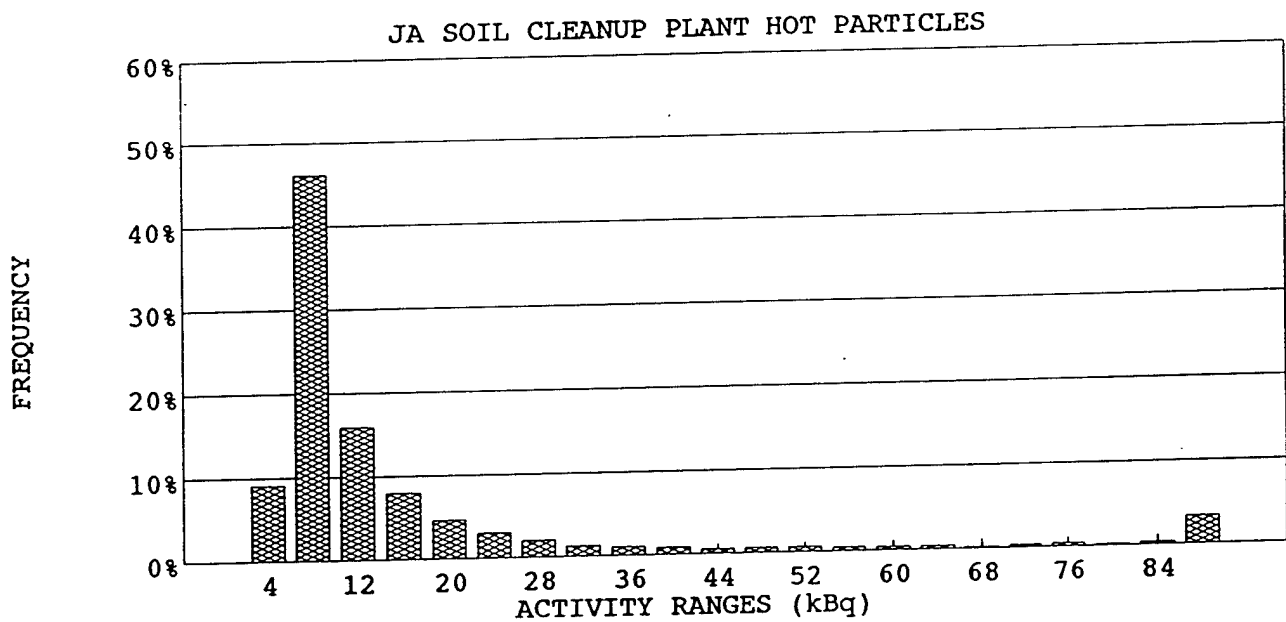
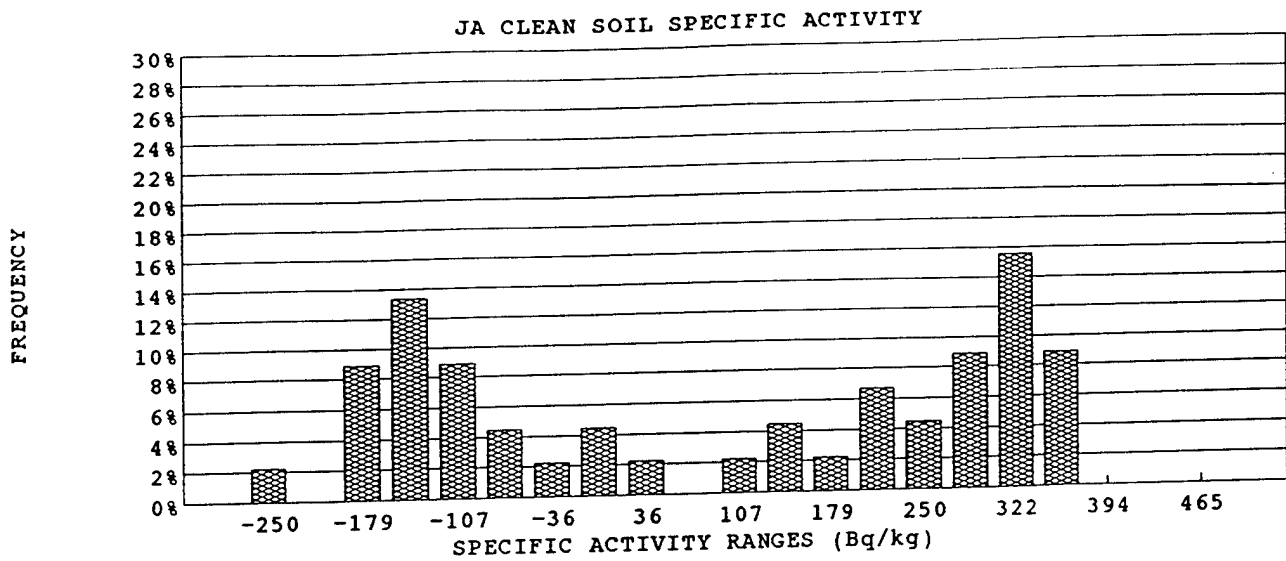
	PARTICLE	HOT	CLEAN
TOTAL	63,452 kBq	42,358 kBq	214 kBq
MAXIMUM/SORT	6,521 kBq	4,853 kBq	20 kBq
MINIMUM/SORT	2 kBq	0 Bq	-14 kBq
SPECIFIC ACTIVITY		1,498 Bq/kg	97 Bq/kg

SORTS

20-SEC PROCESS PERIODS		545	UNEXP	PAUSE
ALL 80 ELEMENTS SORT (MD>0&MND=0)	504		TIME	TIME
NONE (AD=0 & MD=0 & MND>0)	14		16:39	07:40
SOME (AD>0&0<MD<MNDmax&MND<MNDmax)	27			08:39
UNEXPLAINED RECORDS	0			09:11
0<AD<1kBq & MD>0	0			16:57
AD=0 & MD>0	1			
AD<0 & MD >0	0			
2-SEC COUNT PERIODS		5,450		
2-SEC RECORDS WITH SORTS	2,610			
2-SEC RECORDS WITHOUT SORTS	2,840			
TOTAL PROCESS RECORDS (2-s SORTS and 20-s PERIODS)		3,155		
NONPROCESSING RECORDS (Test, calibration, etc)		4		
2-SEC SORT DETECTORS				
1 DET	1,746 66.90%	5 DET	17	0.65%
2 DET	650 24.90%	6 DET	0	0.00%
3 DET	162 6.21%	7 DET	1	0.04%
4 DET	35 1.34%	8 DET	0	0.00%
AVERAGE TIME BETWEEN 2-SEC SORTS	6.2 sec			

FREQUENCY DISTRIBUTIONS

1-GATE SORTS	ACT_ND	NUM	SPEC_A	FREQ%	ACT_P	NUM	FREQ%
DET SORTS FREQ%	(Bq)	(#)	(Bq/kg)		(kBq)	(#)	
1 75 5.8%	-14000	1	-250	2.2%	4	238	9.1%
2 270 20.9%	-12000	0	-215	0.0%	8	1,205	46.2%
3 238 18.4%	-10000	4	-179	8.9%	12	415	15.9%
4 257 19.9%	-8000	6	-143	13.3%	16	209	8.0%
5 217 16.8%	-6000	4	-107	8.9%	20	121	4.6%
6 148 11.5%	-4000	2	-72	4.4%	24	80	3.1%
7 69 5.3%	-2000	1	-36	2.2%	28	53	2.0%
8 17 1.3%	0	2	0	4.4%	32	33	1.3%
TOTAL 1,291	2000	1	36	2.2%	36	28	1.1%
	4000	0	72	0.0%	40	22	0.8%
2-GATE SORTS	6000	1	107	2.2%	44	14	0.5%
DET SORTS FREQ%	8000	2	143	4.4%	48	16	0.6%
9 178 13.5%	10000	1	179	2.2%	52	16	0.6%
10 272 20.6%	12000	3	215	6.7%	56	12	0.5%
11 260 19.7%	14000	2	250	4.4%	60	11	0.4%
12 273 20.7%	16000	4	286	8.9%	64	11	0.4%
13 189 14.3%	18000	7	322	15.6%	68	5	0.2%
14 112 8.5%	20000	4	358	8.9%	72	9	0.3%
15 35 2.7%	22000	0	394	0.0%	76	10	0.4%
TOTAL 1,319	24000	0	429	0.0%	80	5	0.2%
	26000	0	465	0.0%	84	9	0.3%
	>28000	0	0	0.0%	>84	88	3.4%
	TOTAL	45			TOTAL	2,610	
EVENT TYPES	HPE	2,463	MPE	4,726	DISE	33,269	



WORK HISTORY - JA SOIL CLEANUP PLANT

26-Apr-94

WORK DAY START	06:00 AM	WORK DAY END	16:30 PM
LUNCH START	11:00 AM	TIME LOST DURING LUNCH	0.5 HR

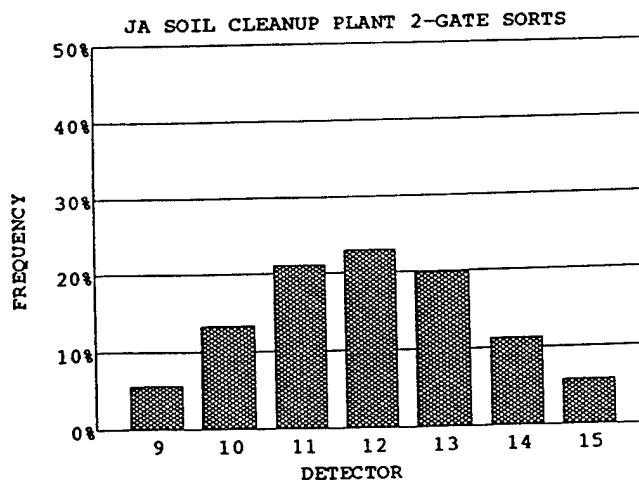
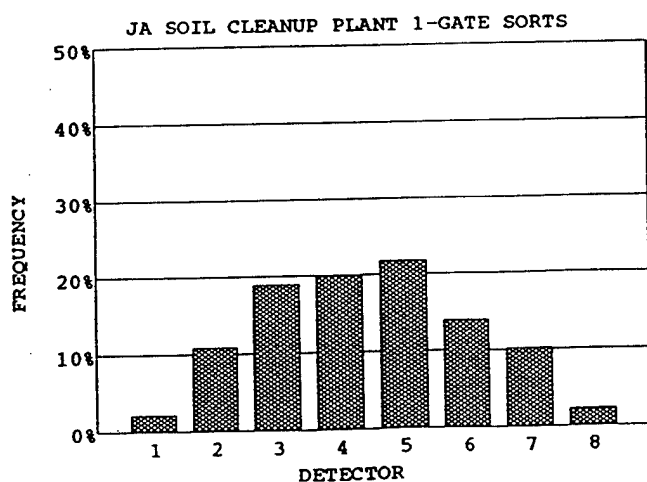
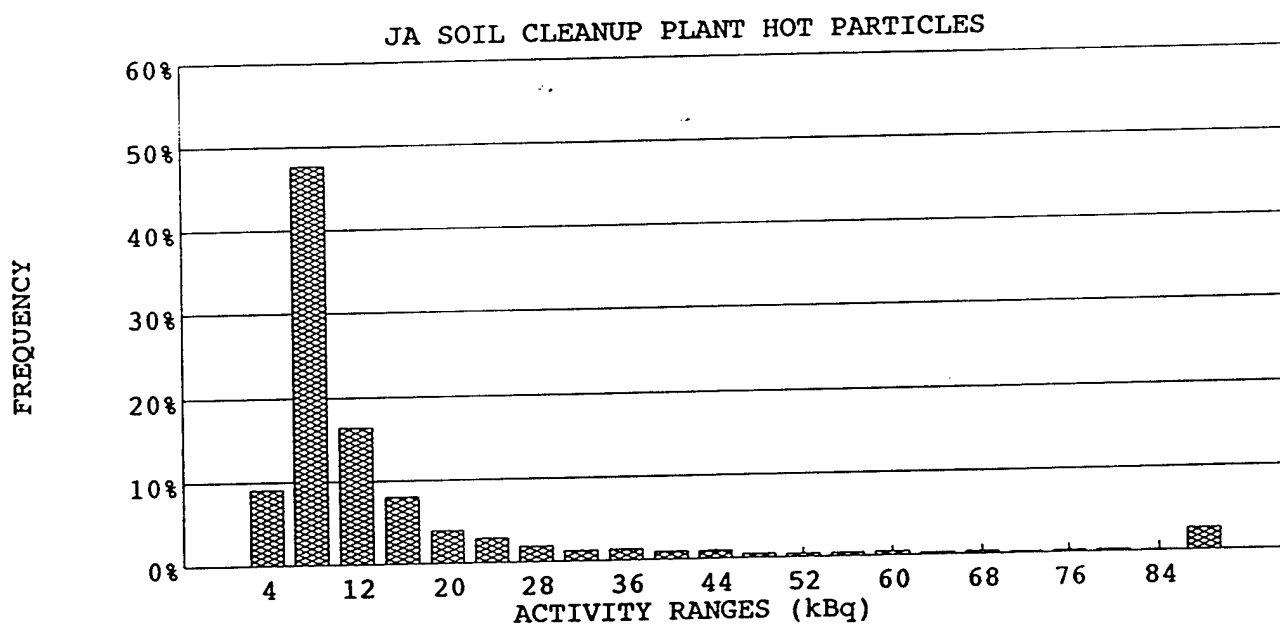
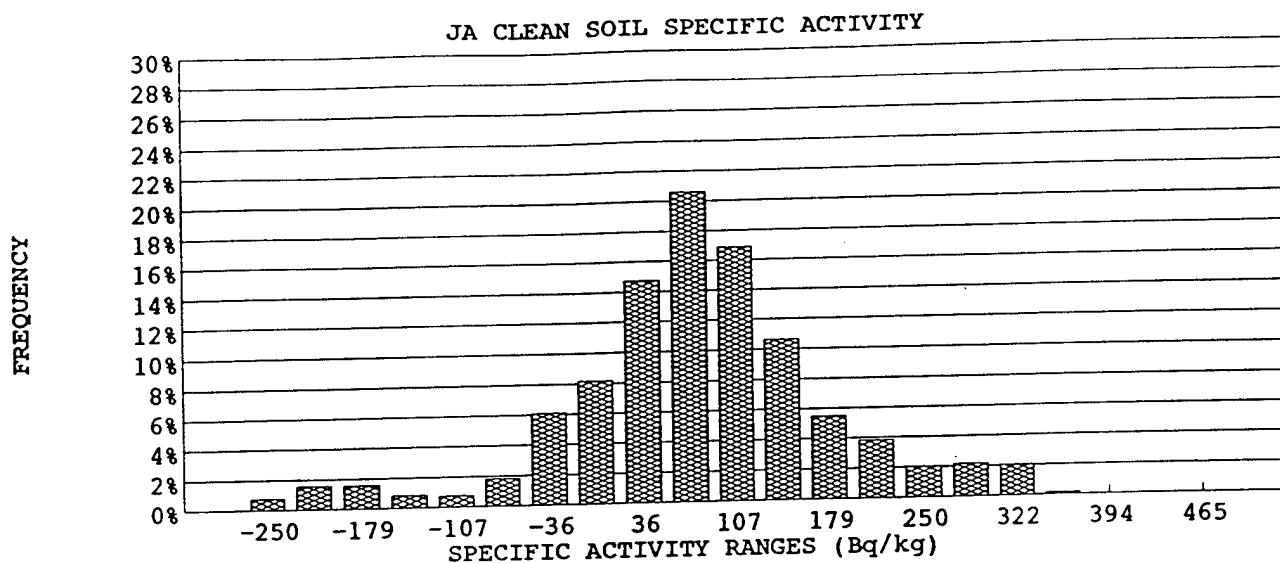
	SORTER 1	SORTER 2	SORTER 3	SORTER 4	TOTAL (sorter hours)
WORK HOURS	10.0 hr	10.0 hr	10.0 hr	10.0 hr	40.0 hr
SORTER AVAILABLE HOURS	9.8 hr	9.8 hr	0.0 hr	0.0 hr	19.5 hr
SORTER START-UP	06:10	06:10	NA	NA	
START SOIL PROCESSING	06:23	06:23	NA	NA	
TIME REQUIRED TO START-UP	0.2 hr	0.2 hr	0.0 hr	0.0 hr	0.4 hr
SORTER SHUT-DOWN	16:25	16:25	NA	NA	
END SOIL PROCESSING	16:10	16:07	NA	NA	
TIME REQUIRED TO SHUT DOWN	0.2 hr	0.3 hr	0.0 hr	0.0 hr	0.5 hr
ACTUAL PROCESS HOURS	8.6 hr	8.5 hr	0.0 hr	0.0 hr	17.1 hr
DOWN-TIME	1.2 hr	1.2 hr	0.0 hr	0.0 hr	2.4 hr
SYSTEM PAUSE	1.2 hr	1.2 hr	0.0 hr	0.0 hr	2.4 hr
SORTER NONAVAILABLE TIME	0.2 hr	0.2 hr	10.0 hr	10.0 hr	20.5 hr
AUTHORIZED DELAY TIME	0.0 hr	0.0 hr	10.0 hr	10.0 hr	20.0 hr
PLANT PERFORMANCE					87.6%
PRODUCTIVITY					42.7%

PRODUCTIVITY

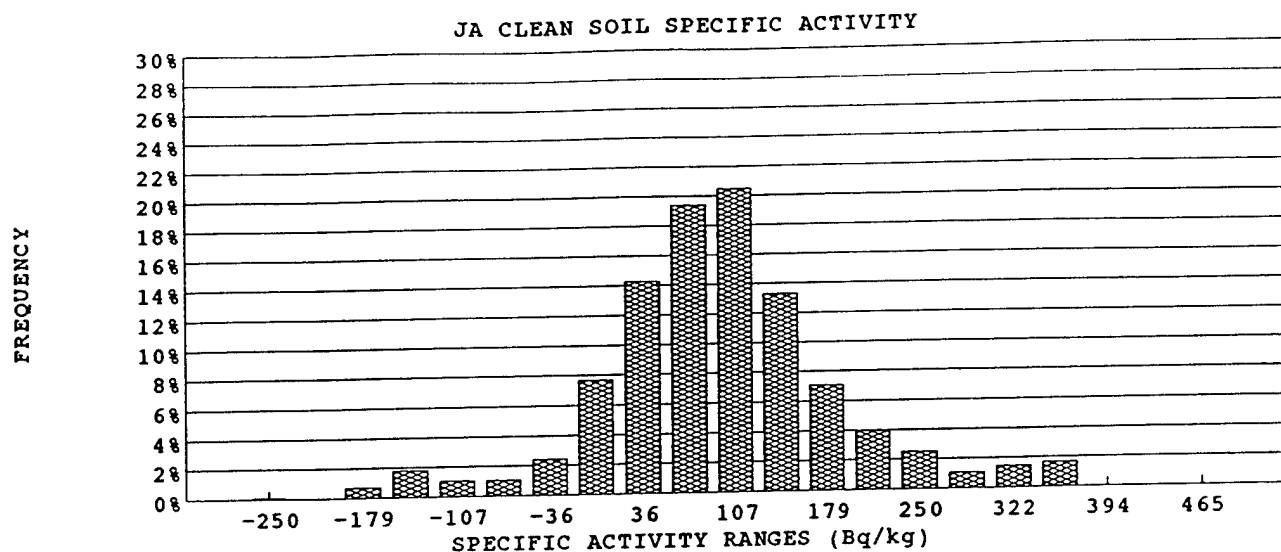
Date	26-Apr-94	Excused Delays for day (sorter-hrs)	20 hr
Contract day (from 6 Sep)	188	Excused delays for contract (sorter-hrs)	3,208 hr
Current Contract week	32	Excused delay days (plant-days)	80 days
		Excused delay months (plant-month)	3.08 months
Soil production for Day	172 MT	Percent of contract completed	41.3%
Cumulative Soil Production for Week	233 MT	Tons Ahead or Behind Schedule	1,783 MT
Total Soil production for contract		Days ahead or behind schedule	6 days
Since 6 Sep 93	39,720 MT		
Since 6 Aug 93	41,311 MT		
Total Soil production for project	67,598 MT		

MT = metric tons

SORTER 1		26-Apr-94							
SORTER SOIL DENSITY		1.20 tons/m ³		BACKGROUND		0.66 ± 0.02 c/s			
SOIL		CONTAMINATED		CLEAN		TOTAL			
MASS TOTAL		40.9 tons		45.4 tons		86.3 tons			
MAXIMUM/SORT		58.1 kg		55.9 kg					
MINIMUM/SORT		0.7 kg		34.2 kg					
VOLUME IN-GROUND		32.4 yd ³		36.0 yd ³		68.4 yd ³			
WEIGHT RECOVERY (CLEAN/(HOT+CLEAN))		52.7%							
ACTIVITY		DISPERSED + PARTICLE							
		PARTICLE		HOT		CLEAN			
TOTAL		67,453 kBq		61,510 kBq		2,861 kBq			
MAXIMUM/SORT		1,379 kBq		1,025 kBq		19 kBq			
MINIMUM/SORT		2 kBq		(9,292)Bq		-16 kBq			
SPECIFIC ACTIVITY				1,505 Bq/kg		63 Bq/kg			
SORTS				1,544		UNEXP PAUSE			
20-SEC PROCESS PERIODS						TIME TIME			
ALL 80 ELEMENTS SORT (MD>0&MND=0)		720				11:48 07:28			
NONE (AD=0 & MD=0 & MND>0)		493							
SOME (AD>0&0<MD<MNDmax&MND<MNDmax)		331				10:00			
UNEXPLAINED RECORDS		0				10:52			
0<AD<1kBq & MD>0		0							
AD=0 & MD>0		0							
AD<0 & MD >0		1							
2-SEC COUNT PERIODS				15,440					
2-SEC RECORDS WITH SORTS		4,050							
2-SEC RECORDS WITHOUT SORTS		11,390							
TOTAL PROCESS RECORDS (2-s SORTS and 20-s PERIODS)				5,594					
NONPROCESSING RECORDS (Test, calibration, etc)				11					
2-SEC SORT DETECTORS									
1 DET		2,761	68.17%	5 DET	8	0.20%			
2 DET		992	24.49%	6 DET	0	0.00%			
3 DET		235	5.80%	7 DET	0	0.00%			
4 DET		54	1.33%	8 DET	0	0.00%			
AVERAGE TIME BETWEEN 2-SEC SORTS		11.2 sec							
FREQUENCY DISTRIBUTIONS									
1-GATESORTS		ACT_ND	NUM	SPEC_A	FREQ%	ACT_P	NUM	FREQ%	
		(Bq)	(#)	(Bq/kg)		(kBq)	(#)		
DET	SORTS	FREQ%							
1	45	2.2%	-14000	6	-250	0.7%	4	369	9.1%
2	223	10.8%	-12000	13	-215	1.6%	8	1,932	47.7%
3	391	19.0%	-10000	13	-179	1.6%	12	664	16.4%
4	411	19.9%	-8000	7	-143	0.8%	16	328	8.1%
5	449	21.8%	-6000	6	-107	0.7%	20	158	3.9%
6	288	14.0%	-4000	15	-72	1.8%	24	119	2.9%
7	209	10.1%	-2000	51	-36	6.1%	28	74	1.8%
8	47	2.3%	0	68	0	8.1%	32	49	1.2%
TOTAL	2,063		2000	123	36	14.7%	36	54	1.3%
2-GATESORTS			4000	172	72	20.6%	40	37	0.9%
DET	SORTS	FREQ%	6000	141	107	16.9%	44	38	0.9%
9	112	5.6%	8000	89	143	10.7%	48	19	0.5%
10	266	13.4%	10000	46	179	5.5%	52	16	0.4%
11	420	21.1%	12000	32	215	3.8%	56	17	0.4%
12	456	22.9%	14000	17	250	2.0%	60	20	0.5%
13	394	19.8%	16000	18	286	2.2%	64	10	0.2%
14	224	11.3%	18000	17	322	2.0%	68	12	0.3%
15	115	5.8%	20000	1	358	0.1%	72	6	0.1%
TOTAL	1,987		22000	0	394	0.0%	76	9	0.2%
			24000	0	429	0.0%	80	10	0.2%
			26000	0	465	0.0%	84	3	0.1%
			>28000	0	0	0.0%	>84	106	2.6%
			TOTAL	835			TOTAL	4,050	
EVENT TYPES		HPE	3,761	MPE	11,991	DISE	42,731		



SORTER 2				26-Apr-94					
SORTER SOIL DENSITY			1.20 tons/m ³		BACKGROUND		0.75 ± 0.03 c/s		
SOIL			CONTAMINATED		CLEAN		TOTAL		
MASS TOTAL			40.0 tons		45.6 tons		85.6 tons		
MAXIMUM/SORT			58.1 kg		55.9 kg				
MINIMUM/SORT			0.7 kg		45.4 kg				
VOLUME IN-GROUND			31.7 yd ³		36.1 yd ³		67.8 yd ³		
WEIGHT RECOVERY (CLEAN/(HOT+CLEAN))			53.2%						
ACTIVITY			PARTICLE		DISPERSED + PARTICLE				
TOTAL			75,569 kBq		HOT 52,606 kBq		CLEAN 3,662 kBq		
MAXIMUM/SORT			3,425 kBq		1,748 kBq		20 kBq		
MINIMUM/SORT			2 kBq		(2,454)Bq		-14 kBq		
SPECIFIC ACTIVITY					1,314 Bq/kg		80 Bq/kg		
SORTS						UNEXP PAUSE			
20-SEC PROCESS PERIODS						1,531		TIME TIME	
ALL 80 ELEMENTS SORT (MD>0&MND=0)				710				11:48 07:28	
NONE (AD=0 & MD=0 & MND>0)				644				10:00	
SOME (AD>0&0<MD<MNDmax&MND<MNDmax)				177				10:52	
UNEXPLAINED RECORDS				0					
0<AD<1kBq & MD>0				0					
AD=0 & MD>0				0					
AD<0 & MD>0				1					
2-SEC COUNT PERIODS						15,310			
2-SEC RECORDS WITH SORTS				3,735					
2-SEC RECORDS WITHOUT SORTS				11,575					
TOTAL PROCESS RECORDS (2-s SORTS and 20-s PERIODS)						5,266			
NONPROCESSING RECORDS (Test, calibration, etc)						14			
2-SEC SORT DETECTORS									
1 DET		2,532	67.79%	5 DET		9	0.24%		
2 DET		925	24.77%	6 DET		0	0.00%		
3 DET		223	5.97%	7 DET		0	0.00%		
4 DET		46	1.23%	8 DET		0	0.00%		
AVERAGE TIME BETWEEN 2-SEC SORTS				12.1 sec					
FREQUENCY DISTRIBUTIONS									
1-GATE SORTS			ACT_ND	NUM	SPEC_A	FREQ%	ACT_P	NUM	FREQ%
DET	SORTS	FREQ%	(Bq)	(#)	(Bq/kg)		(kBq)	(#)	
1	96	5.1%	-14000	1	-250	0.1%	4	318	8.5%
2	376	19.8%	-12000	0	-215	0.0%	8	1,750	46.9%
3	370	19.5%	-10000	6	-179	0.7%	12	608	16.3%
4	377	19.9%	-8000	15	-143	1.8%	16	286	7.7%
5	319	16.8%	-6000	9	-107	1.1%	20	164	4.4%
6	219	11.6%	-4000	9	-72	1.1%	24	144	3.9%
7	111	5.9%	-2000	20	-36	2.4%	28	74	2.0%
8	27	1.4%	0	64	0	7.7%	32	58	1.6%
TOTAL	1,895		2000	119	36	14.3%	36	45	1.2%
			4000	162	72	19.4%	40	37	1.0%
			6000	171	107	20.5%	44	32	0.9%
2-GATE SORTS			8000	111	143	13.3%	48	29	0.8%
DET	SORTS	FREQ%	10000	59	179	7.1%	52	17	0.5%
9	225	12.2%	12000	33	215	4.0%	56	20	0.5%
10	378	20.5%	14000	21	250	2.5%	60	12	0.3%
11	399	21.7%	16000	9	286	1.1%	64	8	0.2%
12	373	20.3%	18000	12	322	1.4%	68	8	0.2%
13	274	14.9%	20000	14	358	1.7%	72	6	0.2%
14	135	7.3%	22000	0	394	0.0%	76	4	0.1%
15	56	3.0%	24000	0	429	0.0%	80	9	0.2%
TOTAL	1,840		26000	0	465	0.0%	84	7	0.2%
			>28000	0	0	0.0%	>84	99	2.7%
			TOTAL	835			TOTAL	3,735	
EVENT TYPES		HPE	3,474	MPE	6,185	DISE	47,627		



WORK HISTORY - JA SOIL CLEANUP PLANT

27-Apr-94

WORK DAY START	06:00 AM	WORK DAY END	16:30 PM
LUNCH START	11:00 AM	TIME LOST DURING LUNCH	0.5 HR

	SORTER 1	SORTER 2	SORTER 3	SORTER 4	TOTAL (sorter hours)
WORK HOURS	10.0 hr	10.0 hr	10.0 hr	10.0 hr	40.0 hr
SORTER AVAILABLE HOURS	9.5 hr	9.5 hr	0.0 hr	0.0 hr	19.0 hr
SORTER START-UP	06:15	06:15	NA	NA	
START SOIL PROCESSING	06:30	06:30	NA	NA	
TIME REQUIRED TO START-UP	0.3 hr	0.3 hr	0.0 hr	0.0 hr	0.5 hr
SORTER SHUT-DOWN	16:15	16:15	NA	NA	
END SOIL PROCESSING	15:57	15:56	NA	NA	
TIME REQUIRED TO SHUT DOWN	0.3 hr	0.3 hr	0.0 hr	0.0 hr	0.6 hr
ACTUAL PROCESS HOURS	8.3 hr	8.2 hr	0.0 hr	0.0 hr	16.5 hr
DOWN-TIME	1.2 hr	1.3 hr	0.0 hr	0.0 hr	2.5 hr
SYSTEM PAUSE	1.2 hr	1.2 hr	0.0 hr	0.0 hr	2.4 hr
SORTER NONAVAILABLE TIME	0.5 hr	0.5 hr	10.0 hr	10.0 hr	21.0 hr
AUTHORIZED DELAY TIME	0.0 hr	0.0 hr	10.0 hr	10.0 hr	20.0 hr
PLANT PERFORMANCE					86.8%
PRODUCTIVITY					41.2%

PRODUCTIVITY

Date	27-Apr-94	Excused Delays for day (sorter-hrs)	20 hr
Contract day (from 6 Sep)	189	Excused delays for contract (sorter-hrs)	3,228 hr
Current Contract week	32	Excused delay days (plant-days)	81 days
		Excused delay months (plant-month)	3.10 months
Soil production for Day	166 MT		
Cumulative Soil Production for Week	398 MT	Percent of contract completed	41.5%
Total Soil production for contract		Tons Ahead or Behind Schedule	1,791 MT
Since 6 Sep 93	39,886 MT	Days ahead or behind schedule	6 days
Since 6 Aug 93	41,477 MT		
Total Soil production for project	67,764 MT		

MT = metric tons

SORTER 1

27-Apr-94

SORTER SOIL DENSITY		1.20 tons/m ³	BACKGROUND		0.67 ± 0.02 c/s
SOIL	CONTAMINATED		CLEAN	TOTAL	
MASS TOTAL	31.2 tons		52.1 tons	83.3 tons	
MAXIMUM/SORT	55.9 kg		55.9 kg		
MINIMUM/SORT	0.7 kg		39.1 kg		
VOLUME IN-GROUND	24.8 yd ³		41.3 yd ³	66.1 yd ³	
WEIGHT RECOVERY (CLEAN/(HOT+CLEAN))	62.5%				

ACTIVITY

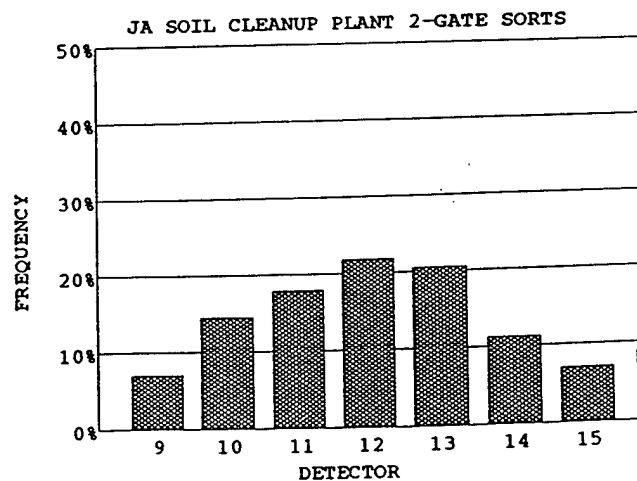
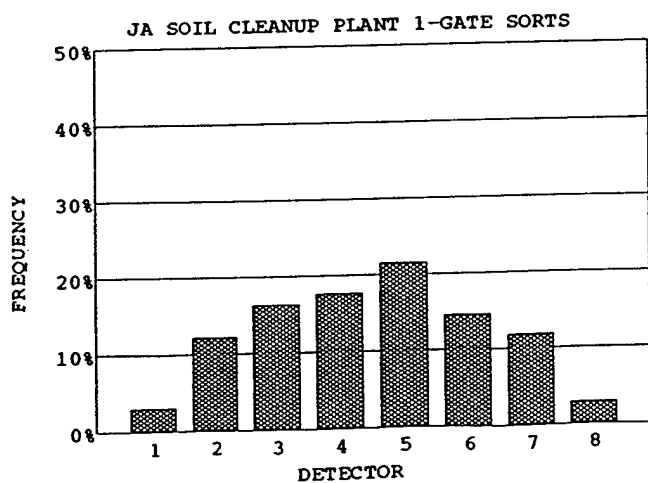
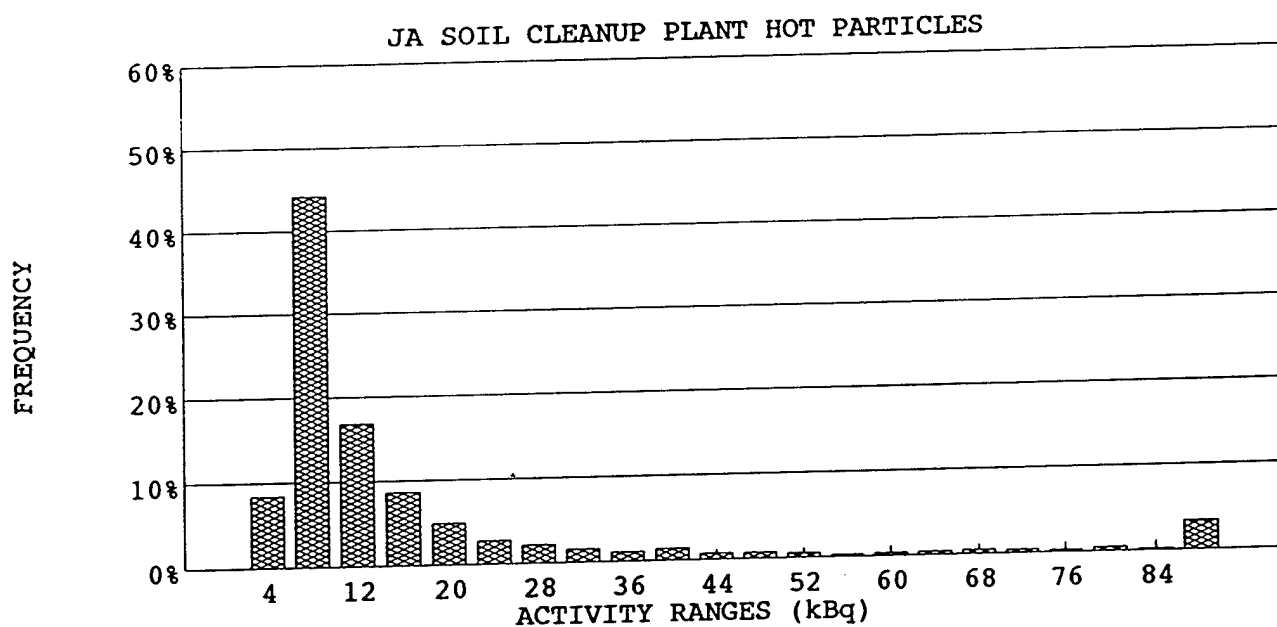
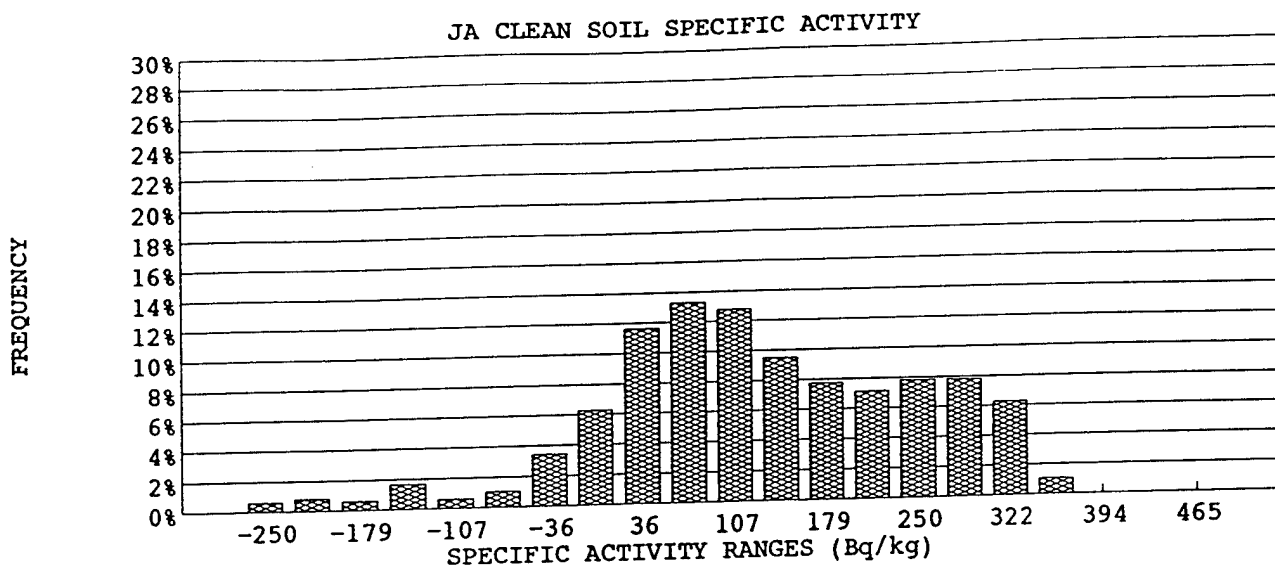
	DISPERSED + PARTICLE	
	PARTICLE	CLEAN
TOTAL	73,318 kBq	6,007 kBq
MAXIMUM/SORT	5,100 kBq	19 kBq
MINIMUM/SORT	2 kBq	-18 kBq
SPECIFIC ACTIVITY	1,612 Bq/kg	115 Bq/kg

SORTS

20-SEC PROCESS PERIODS		1,491	UNEXP	PAUSE
ALL 80 ELEMENTS SORT (MD>0&MND=0)		530	TIME	TIME
NONE (AD=0 & MD=0 & MND>0)		350	None	09:43
SOME (AD>0&0<MD<MNDmax&MND<MNDmax)		611		10:53
UNEXPLAINED RECORDS		0		13:33
0<AD<1kBq & MD>0		0		
AD=0 & MD>0		0		
AD<0 & MD>0		0		
2-SEC COUNT PERIODS		14,910		
2-SEC RECORDS WITH SORTS		2,975		
2-SEC RECORDS WITHOUT SORTS		11,935		
TOTAL PROCESS RECORDS (2-s SORTS and 20-s PERIODS)		4,466		
NONPROCESSING RECORDS (Test, calibration, etc)		10		
2-SEC SORT DETECTORS				
1 DET	2,008 67.50%	5 DET	24	0.81%
2 DET	704 23.66%	6 DET	0	0.00%
3 DET	187 6.29%	7 DET	2	0.07%
4 DET	52 1.75%	8 DET	0	0.00%
AVERAGE TIME BETWEEN 2-SEC SORTS		14.9 sec		

FREQUENCY DISTRIBUTIONS

1-GATE SORTS			ACT_ND	NUM	SPEC_A	FREQ%	ACT_P	NUM	FREQ%
DET	SORTS	FREQ%	(Bq)	(#)	(Bq/kg)		(kBq)	(#)	
1	46	3.0%	-14000	6	-250	0.6%	4	251	8.4%
2	185	12.2%	-12000	8	-215	0.8%	8	1,315	44.2%
3	248	16.3%	-10000	6	-179	0.6%	12	501	16.8%
4	269	17.7%	-8000	16	-143	1.6%	16	257	8.6%
5	327	21.5%	-6000	6	-107	0.6%	20	147	4.9%
6	222	14.6%	-4000	10	-72	1.0%	24	82	2.8%
7	181	11.9%	-2000	33	-36	3.4%	28	65	2.2%
8	43	2.8%	0	61	0	6.3%	32	45	1.5%
TOTAL	1,521		2000	113	36	11.6%	36	32	1.1%
2-GATE SORTS			4000	129	72	13.3%	40	41	1.4%
			6000	124	107	12.8%	44	20	0.7%
DET	SORTS	FREQ%	8000	92	143	9.5%	48	20	0.7%
9	102	7.0%	10000	75	179	7.7%	52	16	0.5%
10	212	14.6%	12000	69	215	7.1%	56	7	0.2%
11	261	18.0%	14000	76	250	7.8%	60	10	0.3%
12	317	21.8%	16000	76	286	7.8%	64	12	0.4%
13	298	20.5%	18000	61	322	6.3%	68	13	0.4%
14	162	11.1%	20000	10	358	1.0%	72	11	0.4%
15	102	7.0%	22000	0	394	0.0%	76	7	0.2%
TOTAL	1,454		24000	0	429	0.0%	80	15	0.5%
			26000	0	465	0.0%	84	6	0.2%
			>28000	0	0	0.0%	>84	102	3.4%
			TOTAL	971			TOTAL	2,975	
EVENT TYPES	HPE		2,766	MPE	7,346	DISE	34,600		



SORTER 2

27-Apr-94

SORTER SOIL DENSITY		1.20 tons/m ³	BACKGROUND		0.76 ± 0.03 c/s
SOIL		CONTAMINATED	CLEAN	TOTAL	
MASS TOTAL		31.5 tons	51.1 tons	82.6 tons	
MAXIMUM/SORT		55.9 kg	55.9 kg		
MINIMUM/SORT		0.7 kg	45.4 kg		
VOLUME IN-GROUND		25.0 yd ³	40.5 yd ³	65.5 yd ³	
WEIGHT RECOVERY (CLEAN/(HOT+CLEAN))		61.9%			

ACTIVITY

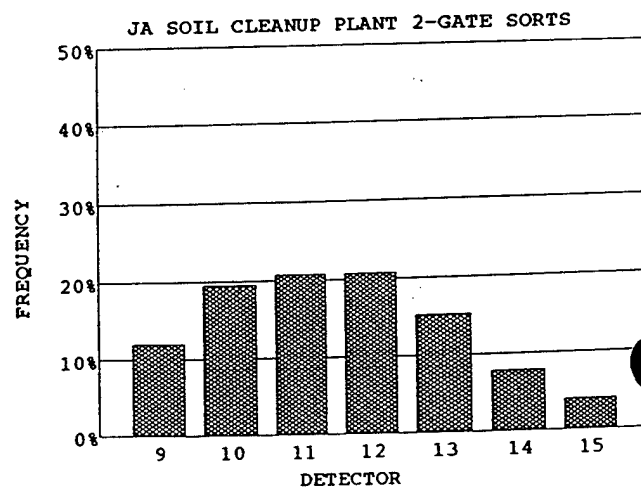
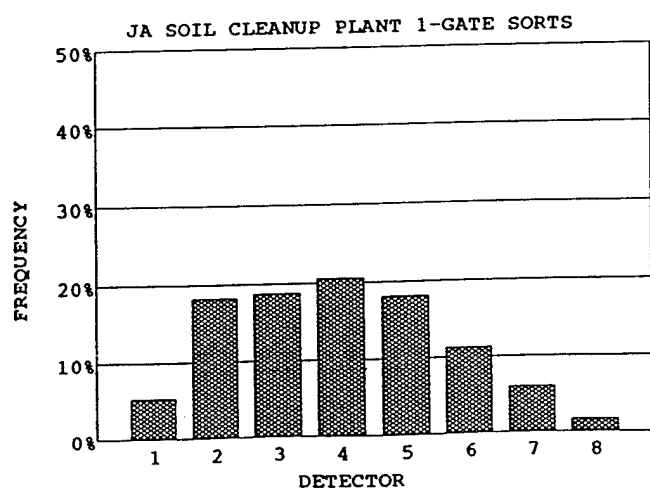
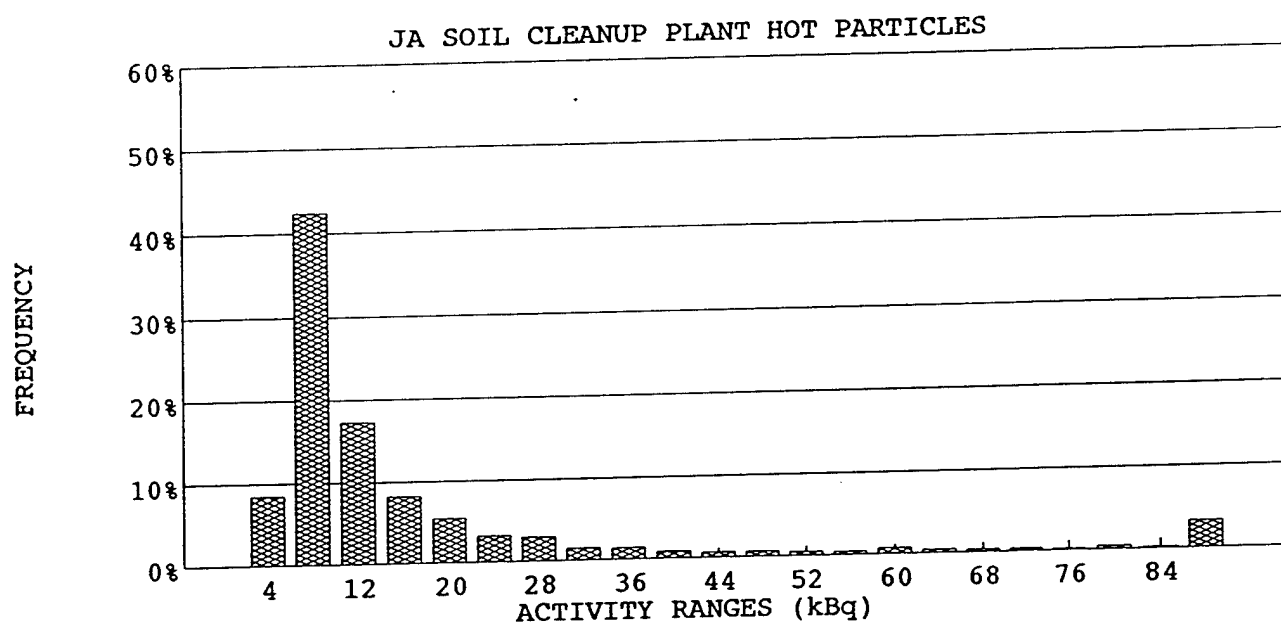
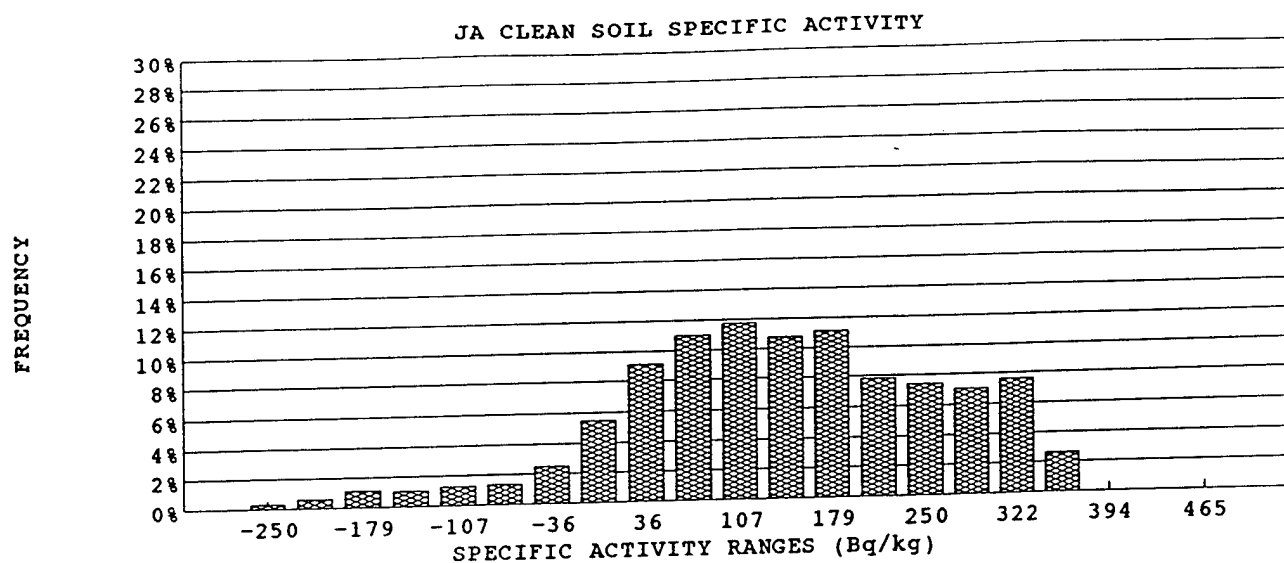
	PARTICLE	DISPERSED + PARTICLE	
		HOT	CLEAN
TOTAL	93,381 kBq	53,850 kBq	6,691 kBq
MAXIMUM/SORT	13,332 kBq	10,202 kBq	19 kBq
MINIMUM/SORT	2 kBq	0 Bq	-14 kBq
SPECIFIC ACTIVITY		1,708 Bq/kg	131 Bq/kg

SORTS

20-SEC PROCESS PERIODS		1,478	UNEXP	PAUSE
ALL 80 ELEMENTS SORT (MD>0&MND=0)	546		TIME	TIME
NONE (AD=0 & MD=0 & MND>0)	456		12:44	09:43
SOME (AD>0&0<MD<MNDmax&MND<MNDmax)	476			10:53
UNEXPLAINED RECORDS	0			13:33
0<AD<1kBq & MD>0	1			
AD=0 & MD>0	0			
AD<0 & MD >0	0			
2-SEC COUNT PERIODS		14,780		
2-SEC RECORDS WITH SORTS	2,855			
2-SEC RECORDS WITHOUT SORTS	11,925			
TOTAL PROCESS RECORDS (2-s SORTS and 20-s PERIODS)		4,333		
NONPROCESSING RECORDS (Test, calibration, etc)		23		
2-SEC SORT DETECTORS				
1 DET	1,951 68.34%	5 DET	8	0.28%
2 DET	698 24.45%	6 DET	0	0.00%
3 DET	161 5.64%	7 DET	0	0.00%
4 DET	37 1.30%	8 DET	0	0.00%
AVERAGE TIME BETWEEN 2-SEC SORTS	15.2 sec			

FREQUENCY DISTRIBUTIONS

1-GATE SORTS			ACT_ND	NUM	SPEC_A	FREQ%	ACT_P	NUM	FREQ%
DET	SORTS	FREQ%	(Bq)	(#)	(Bq/kg)		(kBq)	(#)	
1	75	5.3%	-14000	3	-250	0.3%	4	242	8.5%
2	260	18.3%	-12000	6	-215	0.6%	8	1,210	42.4%
3	267	18.8%	-10000	11	-179	1.2%	12	494	17.3%
4	293	20.6%	-8000	10	-143	1.0%	16	235	8.2%
5	259	18.2%	-6000	12	-107	1.3%	20	156	5.5%
6	159	11.2%	-4000	13	-72	1.4%	24	92	3.2%
7	85	6.0%	-2000	24	-36	2.5%	28	85	3.0%
8	24	1.7%	0	52	0	5.4%	32	43	1.5%
TOTAL	1,422		2000	87	36	9.1%	36	41	1.4%
			4000	105	72	11.0%	40	26	0.9%
			6000	112	107	11.7%	44	19	0.7%
2-GATE SORTS			8000	103	143	10.8%	48	19	0.7%
DET	SORTS	FREQ%	10000	106	179	11.1%	52	13	0.5%
9	171	11.9%	12000	75	215	7.9%	56	12	0.4%
10	279	19.5%	14000	71	250	7.4%	60	20	0.7%
11	298	20.8%	16000	67	286	7.0%	64	11	0.4%
12	298	20.8%	18000	73	322	7.6%	68	10	0.4%
13	218	15.2%	20000	25	358	2.6%	72	10	0.4%
14	112	7.8%	22000	0	394	0.0%	76	6	0.2%
15	57	4.0%	24000	0	429	0.0%	80	12	0.4%
TOTAL	1,433		26000	0	465	0.0%	84	6	0.2%
			>28000	0	0	0.0%	>84	93	3.3%
			TOTAL	955			TOTAL	2,855	
EVENT TYPES	HPE		2,670	MPE	4,745	DISE	37,691		



WORK HISTORY - JA SOIL CLEANUP PLANT

28-Apr-94

WORK DAY START	06:00 AM	WORK DAY END	16:30 PM
LUNCH START	11:00 AM	TIME LOST DURING LUNCH	0.5 HR

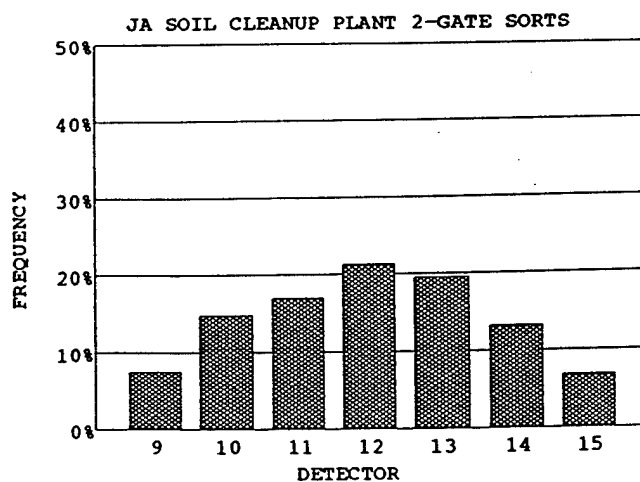
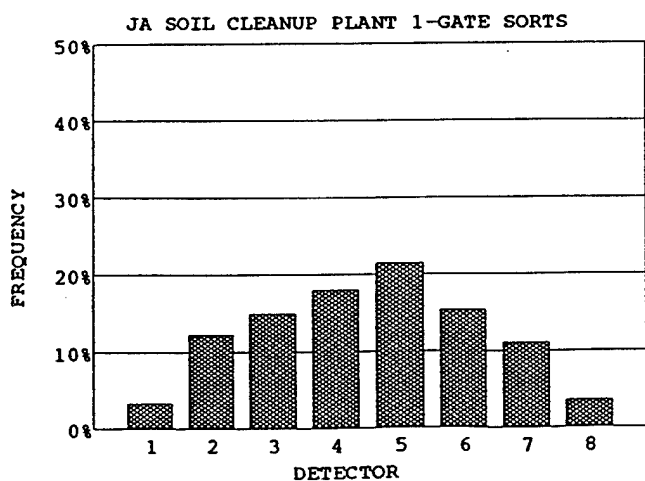
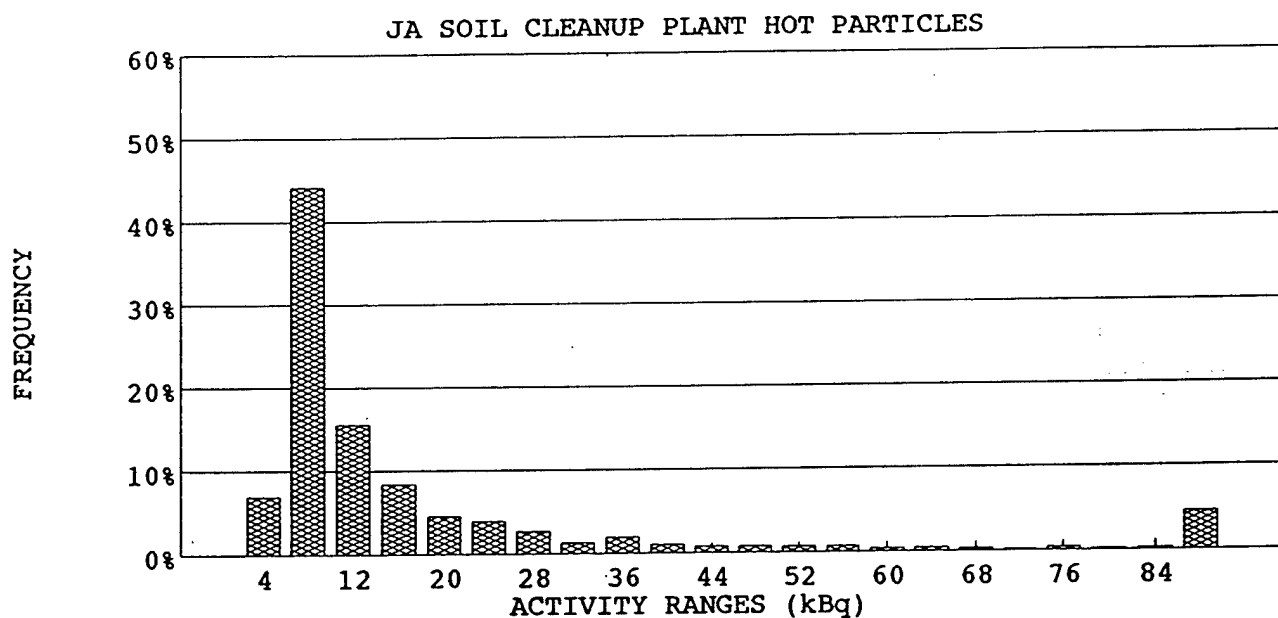
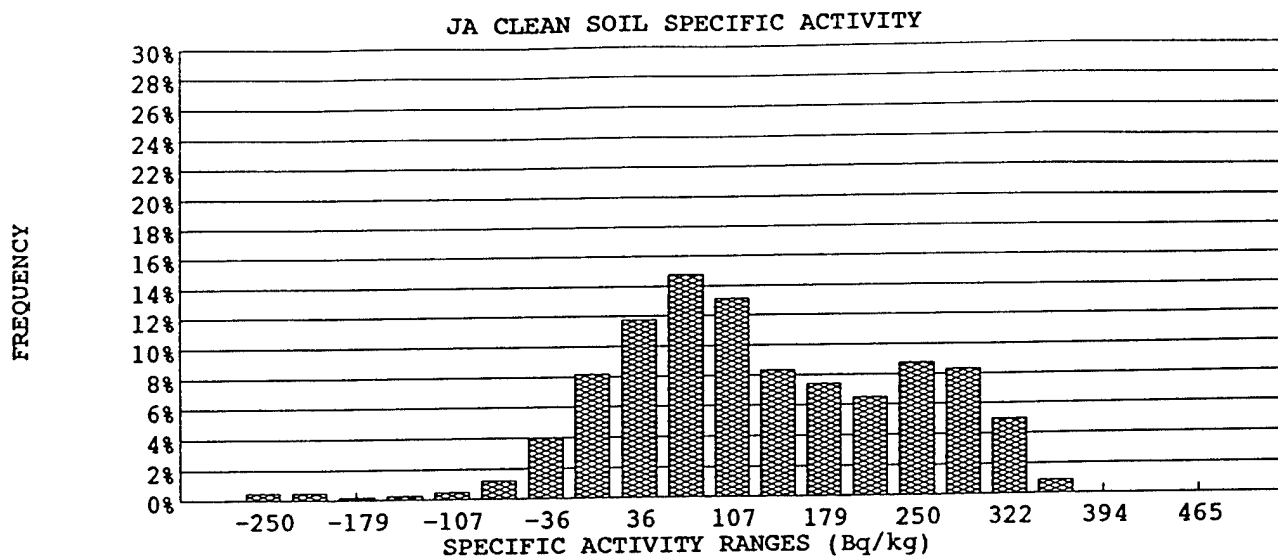
	SORTER 1	SORTER 2	SORTER 3	SORTER 4	TOTAL (sorter hours)
WORK HOURS	10.0 hr	10.0 hr	10.0 hr	10.0 hr	40.0 hr
SORTER AVAILABLE HOURS	9.7 hr	9.7 hr	0.0 hr	0.0 hr	19.3 hr
SORTER START-UP	06:10	06:10	NA	NA	
START SOIL PROCESSING	06:24	06:24	NA	NA	
TIME REQUIRED TO START-UP	0.2 hr	0.2 hr	0.0 hr	0.0 hr	0.5 hr
SORTER SHUT-DOWN	16:20	16:20	NA	NA	
END SOIL PROCESSING	16:02	16:02	NA	NA	
TIME REQUIRED TO SHUT DOWN	0.3 hr	0.3 hr	0.0 hr	0.0 hr	0.6 hr
ACTUAL PROCESS HOURS	8.4 hr	8.4 hr	0.0 hr	0.0 hr	16.8 hr
DOWN-TIME	1.3 hr	1.3 hr	0.0 hr	0.0 hr	2.5 hr
SYSTEM PAUSE	1.3 hr	1.3 hr	0.0 hr	0.0 hr	2.5 hr
SORTER NONAVAILABLE TIME	0.3 hr	0.3 hr	10.0 hr	10.0 hr	20.7 hr
AUTHORIZED DELAY TIME	0.0 hr	0.0 hr	10.0 hr	10.0 hr	20.0 hr
PLANT PERFORMANCE					86.9%
PRODUCTIVITY					42.0%

PRODUCTIVITY

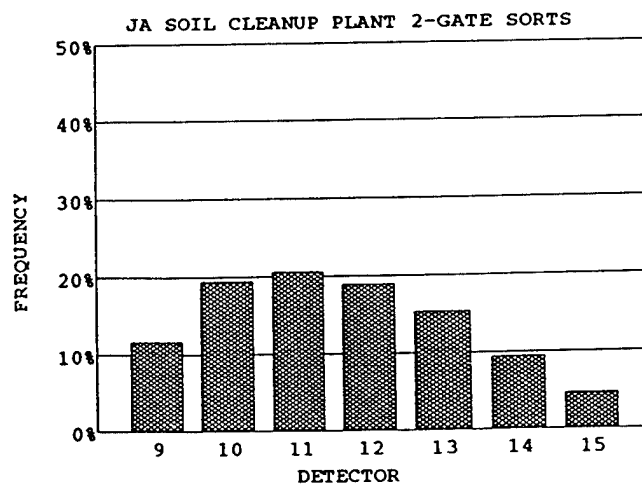
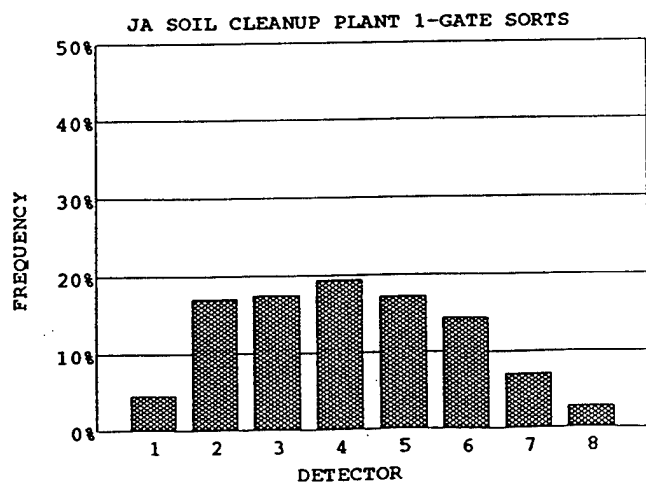
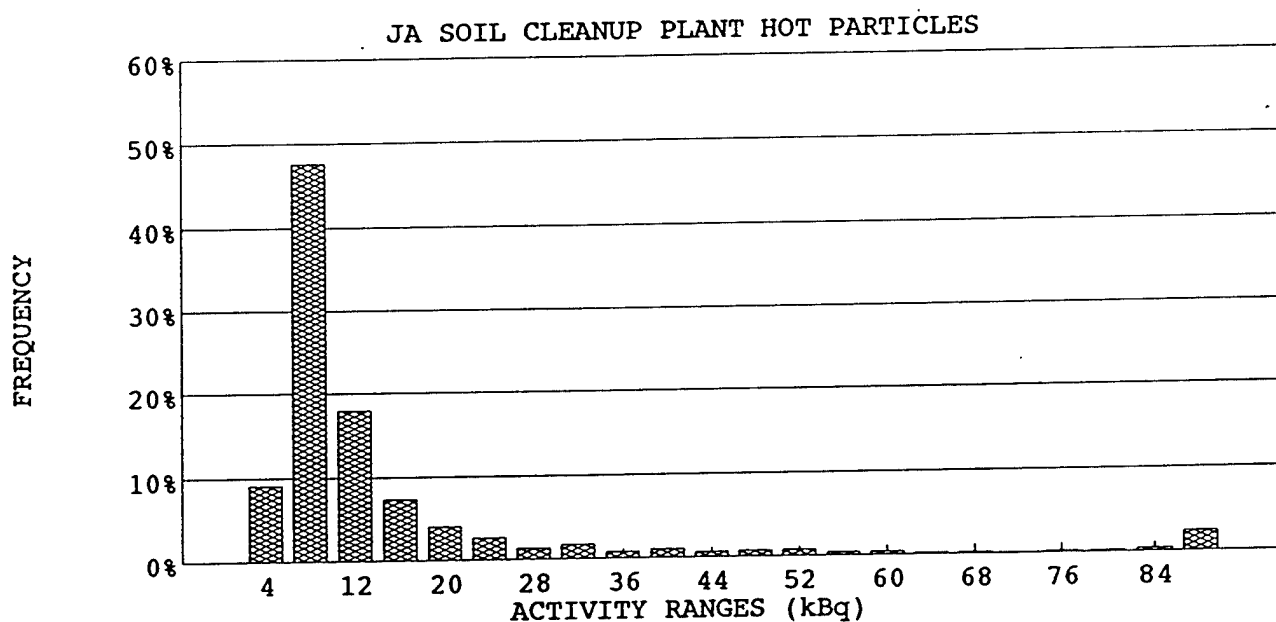
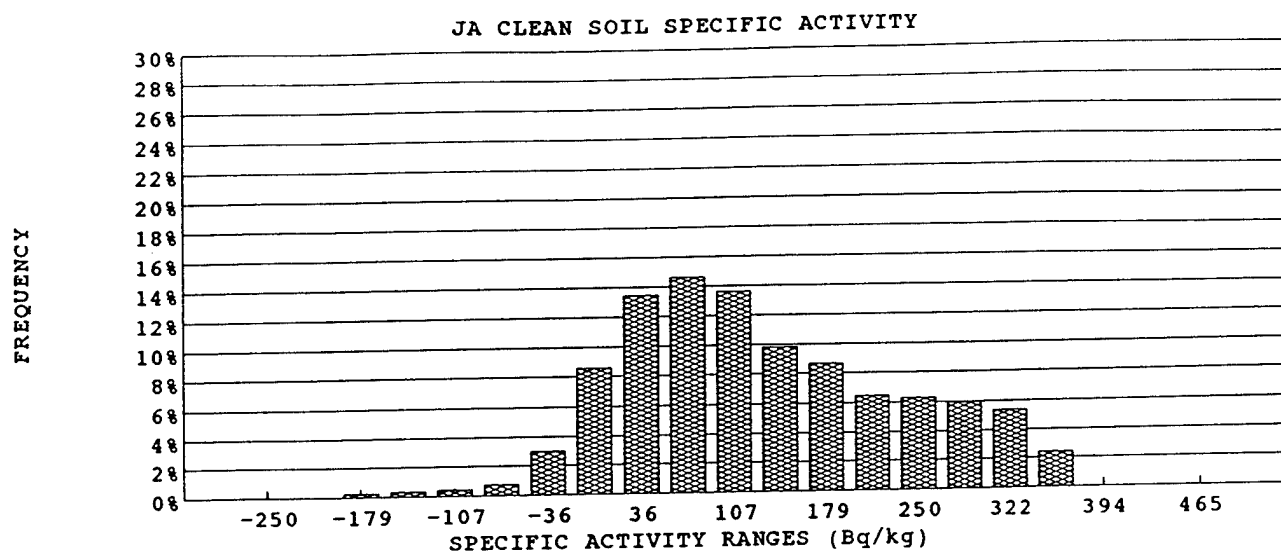
Date	28-Apr-94	Excused Delays for day (sorter-hrs)	20 hr
Contract day (from 6 Sep)	190	Excused delays for contract (sorter-hrs)	3,248 hr
Current Contract week	32	Excused delay days (plant-days)	81 days
		Excused delay months (plant-month)	3.12 months
Soil production for Day	169 MT		
Cumulative Soil Production for Week	568 MT	Percent of contract completed	41.6%
Total Soil production for contract		Tons Ahead or Behind Schedule	1,802 MT
Since 6 Sep 93	40,055 MT	Days ahead or behind schedule	6 days
Since 6 Aug 93	41,646 MT		
Total Soil production for project	67,933 MT		

MT = metric tons

SORTER 1		28-Apr-94			
SORTER SOIL DENSITY		1.20 tons/m ³		BACKGROUND	
				0.67 ± 0.03 c/s	
SOIL		CONTAMINATED		CLEAN	
				TOTAL	
MASS TOTAL		17.0 tons		67.5 tons	
MAXIMUM/SORT		55.9 kg		55.9 kg	
MINIMUM/SORT		0.7 kg		27.9 kg	
VOLUME IN-GROUND		13.5 yd ³		53.5 yd ³	
WEIGHT RECOVERY (CLEAN/(HOT+CLEAN))		79.9%		67.0 yd ³	
ACTIVITY		DISPERSED + PARTICLE			
		PARTICLE		HOT	
				CLEAN	
TOTAL		48,397 kBq		29,498 kBq	
MAXIMUM/SORT		3,599 kBq		2,713 kBq	
MINIMUM/SORT		3 kBq		0 Bq	
SPECIFIC ACTIVITY				1,734 Bq/kg	
				114 Bq/kg	
SORTS					
20-SEC PROCESS PERIODS				1,512	
ALL 80 ELEMENTS SORT (MD>0&MND=0)		266		UNEXP	
NONE (AD=0 & MD=0 & MND>0)		475		TIME	
SOME (AD>0&0<MD<MNDmax&MND<MNDmax)		771		None	
UNEXPLAINED RECORDS		0		10:52	
0<AD<1kBq & MD>0		0		15:02	
AD=0 & MD>0		0			
AD<0 & MD >0		0			
2-SEC COUNT PERIODS				15,120	
2-SEC RECORDS WITH SORTS		1,767			
2-SEC RECORDS WITHOUT SORTS		13,353			
TOTAL PROCESS RECORDS (2-s SORTS and 20-s PERIODS)				3,279	
NONPROCESSING RECORDS (Test, calibration, etc)				2	
2-SEC SORT DETECTORS					
1 DET		1,241 70.23%		5 DET	
2 DET		416 23.54%		8	
3 DET		89 5.04%		0	
4 DET		13 0.74%		6 DET	
				7 DET	
				1	
				8 DET	
				0	
AVERAGE TIME BETWEEN 2-SEC SORTS		24.4 sec		0.45%	
				0.00%	
				0.06%	
				0.00%	
FREQUENCY DISTRIBUTIONS					
1-GATESORTS		ACT_ND		NUM	
DET SORTS		FREQ%		SPEC_A	
		(Bq)		FREQ%	
		(#)		ACT_P	
				(kBq)	
				NUM	
				FREQ%	
1 29 3.2%		-14000 6		-250 0.5%	
2 111 12.3%		-12000 6		-215 0.5%	
3 135 15.0%		-10000 2		-179 0.2%	
4 162 18.0%		-8000 3		-143 0.2%	
5 193 21.4%		-6000 6		-107 0.5%	
6 139 15.4%		-4000 15		-72 1.2%	
7 100 11.1%		-2000 50		-36 4.0%	
8 32 3.6%		0 102		0 8.2%	
TOTAL 901		2000 147		36 11.8%	
		4000 184		72 14.7%	
		6000 164		107 13.1%	
2-GATESORTS		8000 104		143 8.3%	
DET SORTS		FREQ%		48 4.8%	
		(Bq)		52 1.2%	
		(#)		56 0.7%	
9 65 7.5%		10000 92		179 7.4%	
10 128 14.8%		12000 81		215 6.5%	
11 147 17.0%		14000 109		250 8.7%	
12 184 21.2%		16000 104		286 8.3%	
13 169 19.5%		18000 62		322 5.0%	
14 114 13.2%		20000 11		358 0.9%	
15 59 6.8%		22000 0		394 0.0%	
TOTAL 866		24000 0		429 0.0%	
		26000 0		465 0.0%	
		>28000 0		0 0.0%	
		TOTAL 1,248		TOTAL 1,767	
EVENT TYPES		HPE 1,704		MPE 4,032	
				DISE 18,603	



SORTER 2										28-Apr-94	
SORTER SOIL DENSITY					1.20 tons/m ³		BACKGROUND		0.77 ± 0.03 c/s		
SOIL					CONTAMINATED		CLEAN		TOTAL		
MASS TOTAL					25.1 tons		59.4 tons		84.5 tons		
MAXIMUM/SORT					55.9 kg		55.9 kg				
MINIMUM/SORT					0.7 kg		45.4 kg				
VOLUME IN-GROUND					19.9 yd ³		47.1 yd ³		67.0 yd ³		
WEIGHT RECOVERY (CLEAN/(HOT+CLEAN))					70.3%						
ACTIVITY					PARTICLE		DISPERSED + PARTICLE				
					HOT		CLEAN				
TOTAL					28,459 kBq		24,579 kBq		6,687 kBq		
MAXIMUM/SORT					1,415 kBq		1,041 kBq		19 kBq		
MINIMUM/SORT					2 kBq		0 Bq		-11 kBq		
SPECIFIC ACTIVITY							979 Bq/kg		113 Bq/kg		
SORTS										UNEXP PAUSE	
20-SEC PROCESS PERIODS										1,512	
ALL 80 ELEMENTS SORT (MD>0&MND=0)										433	
NONE (AD=0 & MD=0 & MND>0)										620	
SOME (AD>0&0<MD<MNDmax&MND<MNDmax)										459	
UNEXPLAINED RECORDS										0	
0<AD<1kBq & MD>0										0	
AD=0 & MD>0										0	
AD<0 & MD >0										0	
2-SEC COUNT PERIODS										15,120	
2-SEC RECORDS WITH SORTS										1,595	
2-SEC RECORDS WITHOUT SORTS										13,525	
TOTAL PROCESS RECORDS (2-s SORTS and 20-s PERIODS)										3,107	
NONPROCESSING RECORDS (Test, calibration, etc)										2	
2-SEC SORT DETECTORS											
1 DET					1,176 73.73%		5 DET		3 0.19%		
2 DET					335 21.00%		6 DET		0 0.00%		
3 DET					67 4.20%		7 DET		0 0.00%		
4 DET					14 0.88%		8 DET		0 0.00%		
AVERAGE TIME BETWEEN 2-SEC SORTS										25.7 sec	
FREQUENCY DISTRIBUTIONS											
1-GATE SORTS			ACT_ND	NUM	SPEC_A	FREQ%	ACT_P	NUM	FREQ%		
DET	SORTS	FREQ%	(Bq)	(#)	(Bq/kg)		(kBq)	(#)			
1	36	4.5%	-14000	0	-250	0.0%	4	145		9.1%	
2	136	17.0%	-12000	0	-215	0.0%	8	759		47.6%	
3	140	17.5%	-10000	3	-179	0.3%	12	286		17.9%	
4	155	19.4%	-8000	4	-143	0.4%	16	117		7.3%	
5	138	17.3%	-6000	5	-107	0.5%	20	64		4.0%	
6	115	14.4%	-4000	8	-72	0.7%	24	42		2.6%	
7	56	7.0%	-2000	32	-36	3.0%	28	21		1.3%	
8	22	2.8%	0	93	0	8.6%	32	27		1.7%	
TOTAL			2000	145	36	13.4%	36	13		0.8%	
			4000	158	72	14.6%	40	16		1.0%	
			6000	147	107	13.6%	44	10		0.6%	
2-GATE SORTS			8000	106	143	9.8%	48	11		0.7%	
DET	SORTS	FREQ%									
9	93	11.7%	10000	94	179	8.7%	52	13		0.8%	
10	155	19.4%	12000	70	215	6.5%	56	7		0.4%	
11	164	20.6%	14000	68	250	6.3%	60	6		0.4%	
12	151	18.9%	16000	64	286	5.9%	64	3		0.2%	
13	122	15.3%	18000	58	322	5.4%	68	3		0.2%	
14	75	9.4%	20000	26	358	2.4%	72	1		0.1%	
15	37	4.6%	22000	0	394	0.0%	76	3		0.2%	
TOTAL			24000	0	429	0.0%	80	3		0.2%	
			26000	0	465	0.0%	84	6		0.4%	
			>28000	0	0	0.0%	>84	39		2.4%	
			TOTAL	1,081			TOTAL	1,595			
EVENT TYPES			HPE	1,606	MPE	2,471	DISE	31,833			



WORK HISTORY - JA SOIL CLEANUP PLANT

29-Apr-94

WORK DAY START	06:00 AM	WORK DAY END	16:30 PM		
LUNCH START	11:00 AM	TIME LOST DURING LUNCH	0.5 HR		
	SORTER 1	SORTER 2	SORTER 3	SORTER 4	TOTAL (sorter hours)
WORK HOURS	10.0 hr	10.0 hr	10.0 hr	10.0 hr	40.0 hr
SORTER AVAILABLE HOURS	9.8 hr	9.8 hr	9.8 hr	9.8 hr	39.0 hr
SORTER START-UP	06:10	06:10	06:10	06:10	
START SOIL PROCESSING	06:26	06:26	06:34	06:33	
TIME REQUIRED TO START-UP	0.3 hr	0.3 hr	0.4 hr	0.4 hr	1.4 hr
SORTER SHUT-DOWN	16:25	16:25	16:25	16:25	
END SOIL PROCESSING	16:07	16:08	16:12	16:07	
TIME REQUIRED TO SHUT DOWN	0.3 hr	0.3 hr	0.2 hr	0.3 hr	1.1 hr
ACTUAL PROCESS HOURS	8.2 hr	8.2 hr	7.9 hr	8.6 hr	32.9 hr
DOWN-TIME	1.5 hr	1.5 hr	1.9 hr	1.2 hr	6.1 hr
SYSTEM PAUSE	1.5 hr	1.5 hr	1.4 hr	1.0 hr	5.4 hr
SORTER NONAVAILABLE TIME	0.2 hr	0.2 hr	0.2 hr	0.2 hr	1.0 hr
AUTHORIZED DELAY TIME	0.0 hr	0.0 hr	0.0 hr	0.0 hr	0.0 hr
PLANT PERFORMANCE					84.3%
PRODUCTIVITY					82.2%

PRODUCTIVITY

Date	29-Apr-94	Excused Delays for day (sorter-hrs)	0 hr
Contract day (from 6 Sep)	191	Excused delays for contract (sorter-hrs)	3,248 hr
Current Contract week	32	Excused delay days (plant-days)	81 days
		Excused delay months (plant-month)	3.12 months
Soil production for Day	331 MT		
Cumulative Soil Production for Week	898 MT	Percent of contract completed	41.8%
Total Soil production for contract		Tons Ahead or Behind Schedule	1,813 MT
Since 6 Sep 93	40,383 MT	Days ahead or behind schedule	6 days
Since 6 Aug 93	41,974 MT		
Total Soil production for project	68,261 MT		

MT = metric tons

SORTER 1

29-Apr-94

SORTER SOIL DENSITY		1.20 tons/m ³	BACKGROUND		0.67 ± 0.02 c/s
SOIL	CONTAMINATED		CLEAN	TOTAL	
MASS TOTAL	59.2 tons		23.6 tons	82.8 tons	
MAXIMUM/SORT	55.9 kg		55.9 kg		
MINIMUM/SORT	0.7 kg		41.2 kg		
VOLUME IN-GROUND	47.0 yd ³		18.7 yd ³	65.7 yd ³	
WEIGHT RECOVERY (CLEAN/(HOT+CLEAN))		28.5%			

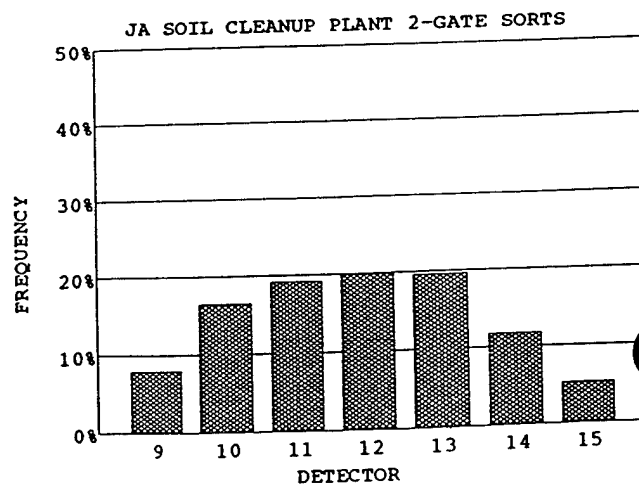
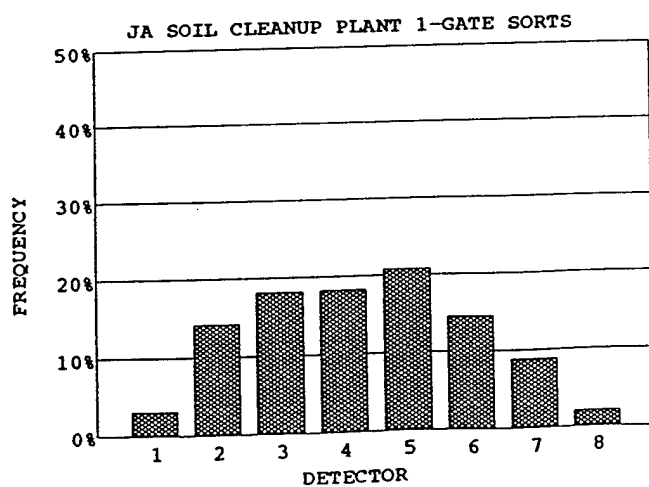
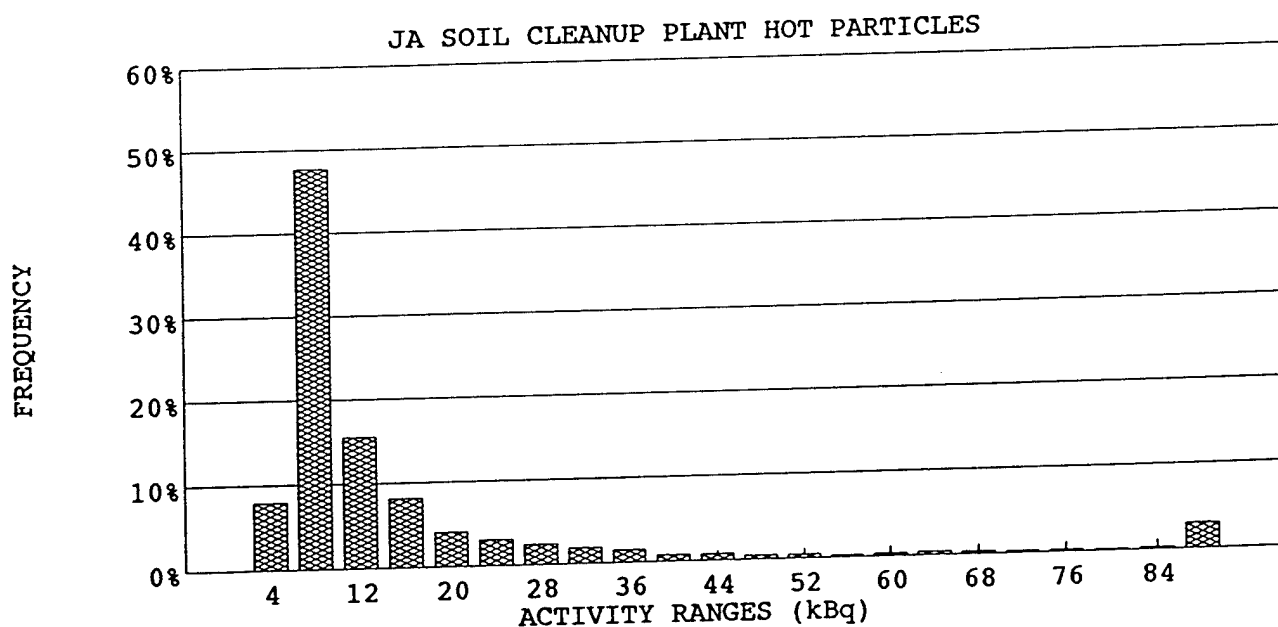
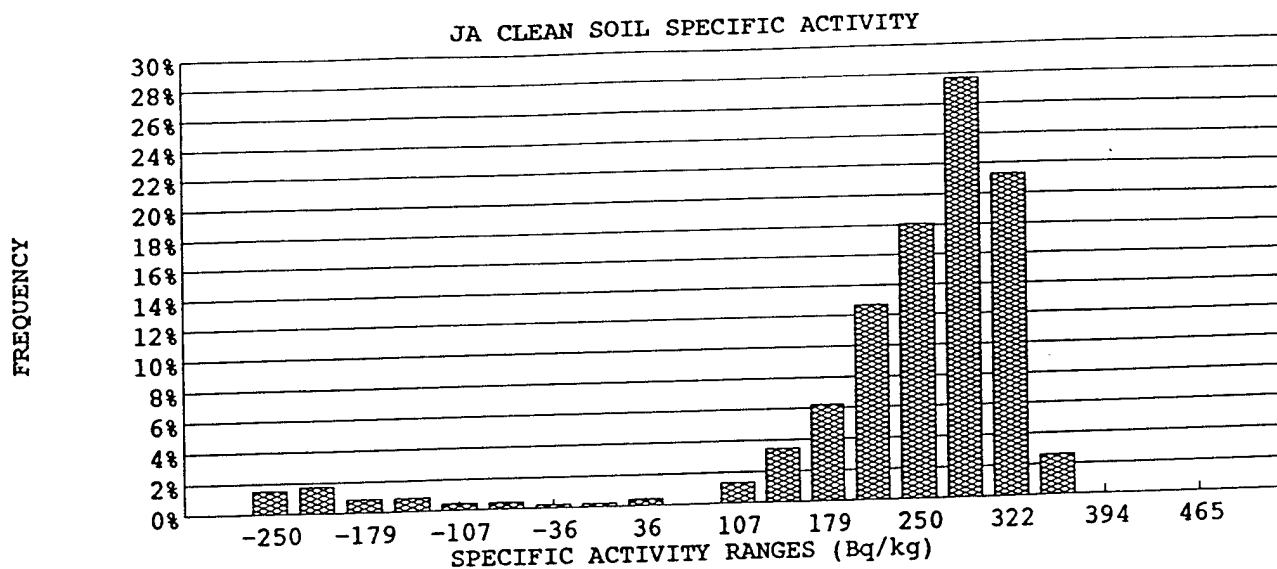
ACTIVITY	PARTICLE		DISPERSED + PARTICLE	
			HOT	CLEAN
	TOTAL		134,030 kBq	5,768 kBq
	MAXIMUM/SORT		13,574 kBq	19 kBq
	MINIMUM/SORT		2 kBq	-16 kBq
SPECIFIC ACTIVITY			1,603 Bq/kg	244 Bq/kg

SORTS			1,482	UNEXP	PAUSE
20-SEC PROCESS PERIODS				TIME	TIME
ALL 80 ELEMENTS SORT (MD>0&MND=0)		1,024		None	07:55
NONE (AD=0 & MD=0 & MND>0)		23			09:18
SOME (AD>0&0<MD<MNDmax&MND<MNDmax)		435			10:49
UNEXPLAINED RECORDS		0			13:27
0<AD<1kBq & MD>0		0			15:21
AD=0 & MD>0		0			
AD<0 & MD>0		0			
2-SEC COUNT PERIODS			14,820		
2-SEC RECORDS WITH SORTS		5,004			
2-SEC RECORDS WITHOUT SORTS		9,816			
TOTAL PROCESS RECORDS (2-s SORTS and 20-s PERIODS)			6,486		
NONPROCESSING RECORDS (Test, calibration, etc)			7		
2-SEC SORT DETECTORS					
1 DET	3,437 68.69%	5 DET	18	0.36%	
2 DET	1,200 23.98%	6 DET	0	0.00%	
3 DET	295 5.90%	7 DET	1	0.02%	
4 DET	54 1.08%	8 DET	1	0.02%	
AVERAGE TIME BETWEEN 2-SEC SORTS		8.6 sec			

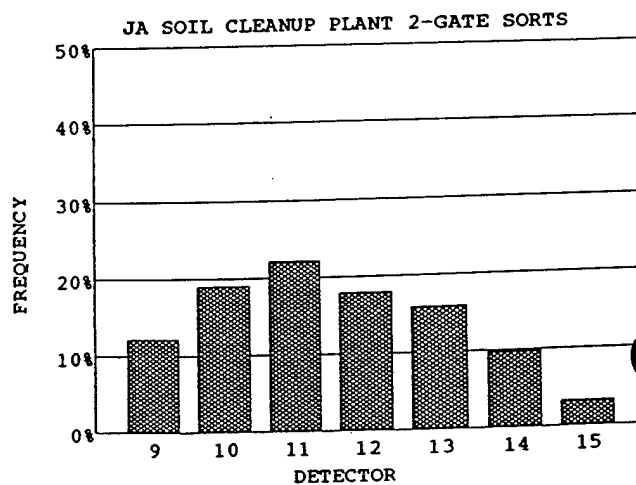
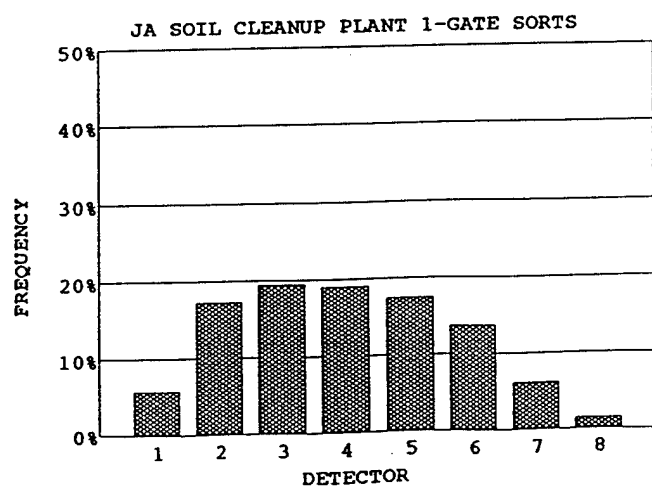
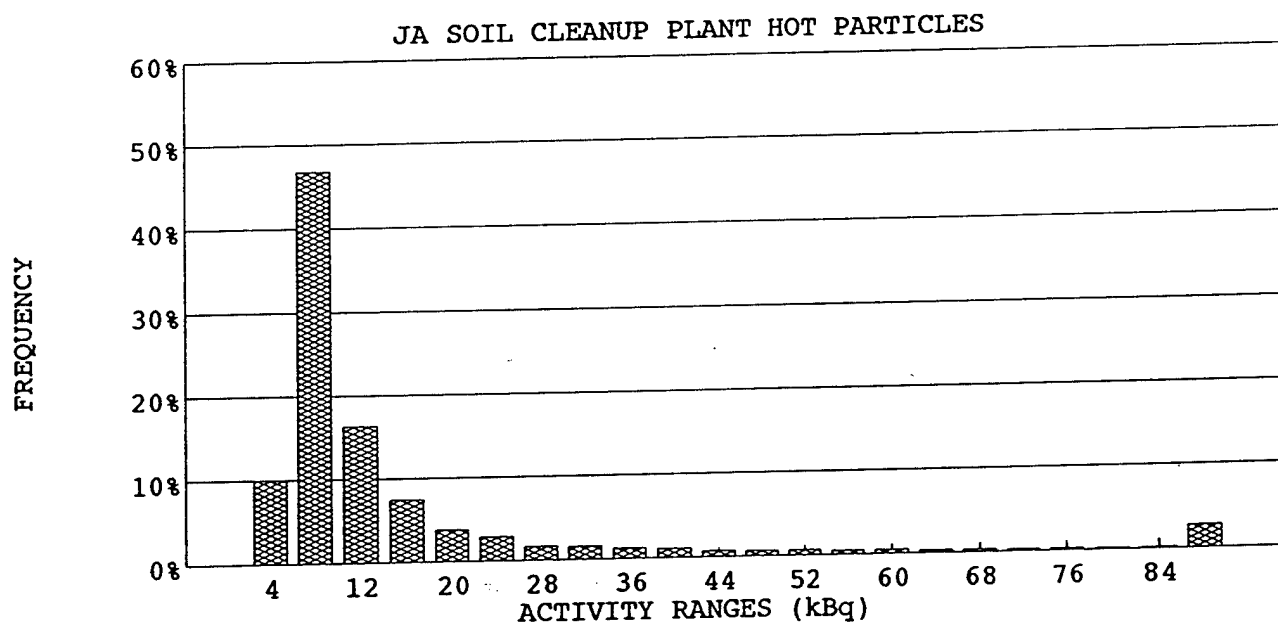
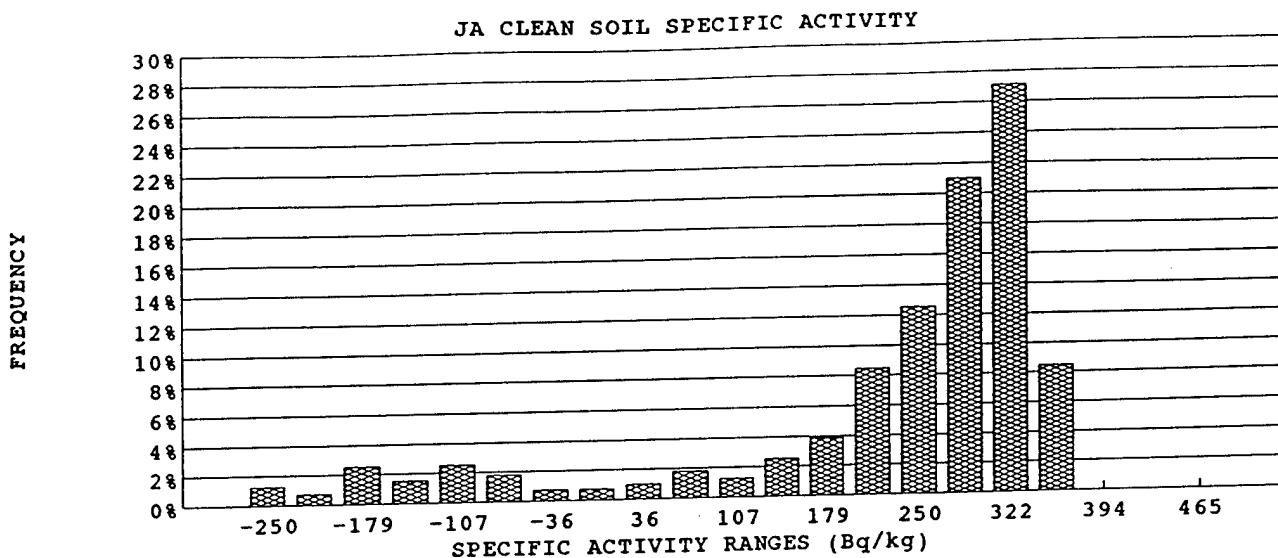
FREQUENCY DISTRIBUTIONS									
1-GATESORTS			ACT_ND	NUM	SPEC_A	FREQ%	ACT_P	NUM	FREQ%
DET	SORTS	FREQ%	(Bq)	(#)	(Bq/kg)		(kBq)	(#)	
1	79	3.1%	-14000	7	-250	1.5%	4	398	8.0%
2	364	14.2%	-12000	8	-215	1.7%	8	2,390	47.8%
3	465	18.2%	-10000	4	-179	0.9%	12	774	15.5%
4	468	18.3%	-8000	4	-143	0.9%	16	409	8.2%
5	532	20.8%	-6000	2	-107	0.4%	20	206	4.1%
6	373	14.6%	-4000	2	-72	0.4%	24	154	3.1%
7	226	8.8%	-2000	1	-36	0.2%	28	119	2.4%
8	52	2.0%	0	1	0	0.2%	32	92	1.8%
TOTAL	2,559		2000	2	36	0.4%	36	74	1.5%
2-GATESORTS			4000	0	72	0.0%	40	40	0.8%
DET	SORTS	FREQ%	6000	6	107	1.3%	44	40	0.8%
9	192	7.9%	8000	16	143	3.4%	48	22	0.4%
10	403	16.5%	10000	29	179	6.2%	52	24	0.5%
11	470	19.2%	12000	59	215	12.7%	56	13	0.3%
12	487	19.9%	14000	84	250	18.1%	60	17	0.3%
13	479	19.6%	16000	129	286	27.7%	64	19	0.4%
14	286	11.7%	18000	99	322	21.3%	68	15	0.3%
15	128	5.2%	20000	12	358	2.6%	72	14	0.3%
TOTAL	2,445		22000	0	394	0.0%	76	14	0.3%
			24000	0	429	0.0%	80	8	0.2%
			26000	0	465	0.0%	84	11	0.2%
			>28000	0	0	0.0%	>84	151	3.0%
			TOTAL	465			TOTAL	5,004	
EVENT TYPES		HPE	4,745	MPE	14,532	DISE	65,490		

SORTER 1

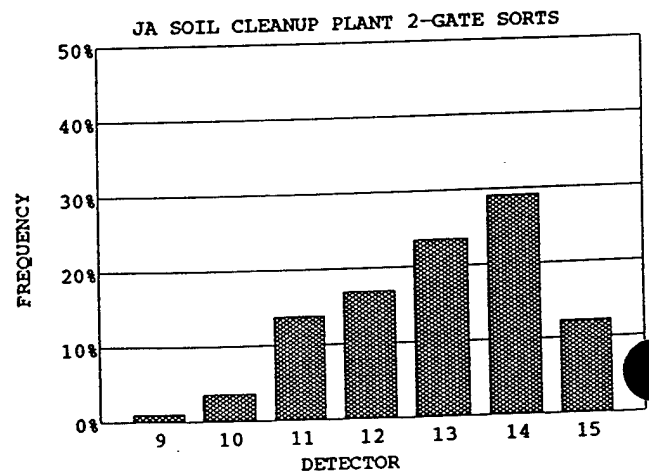
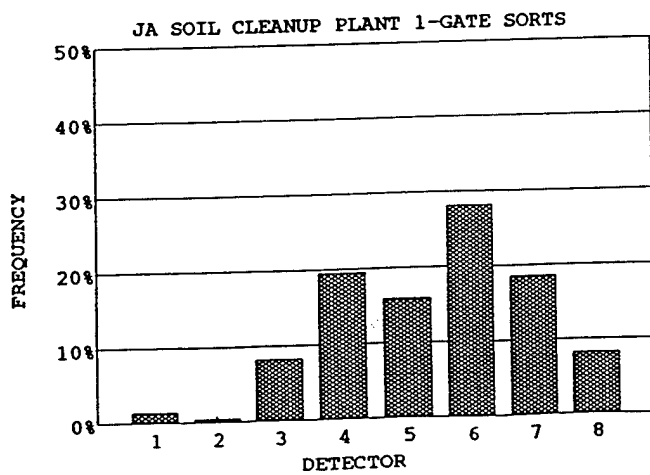
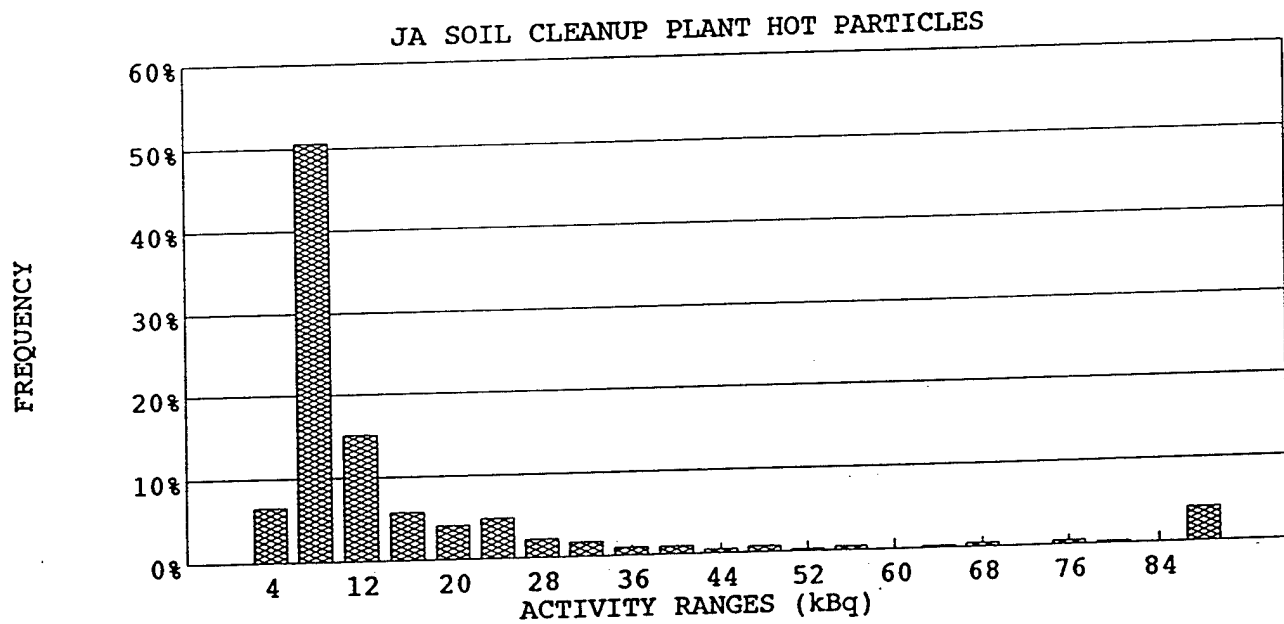
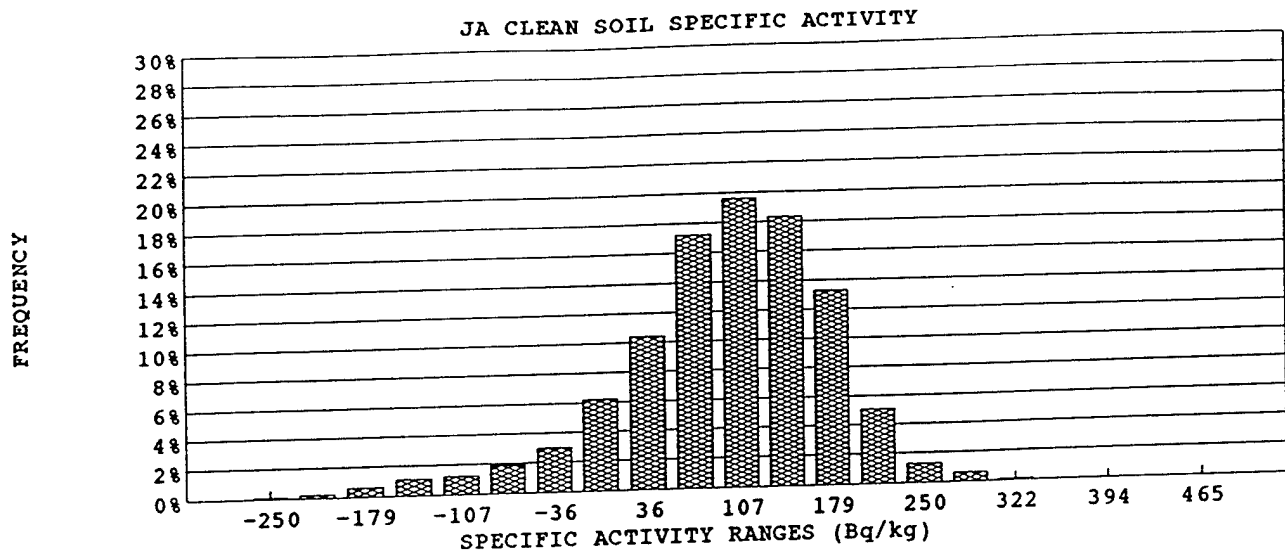
29-Apr-94



29-Apr-94																
SORTER 2			SORTER SOIL DENSITY			1.20 tons/m ³		BACKGROUND		0.79 ± 0.12 c/s						
SOIL			CONTAMINATED			CLEAN			TOTAL							
MASS TOTAL			62.6 tons			20.2 tons			82.7 tons							
MAXIMUM/SORT			55.9 kg			55.9 kg										
MINIMUM/SORT			0.7 kg			40.5 kg										
VOLUME IN-GROUND			49.6 yd ³			16.0 yd ³			65.6 yd ³							
WEIGHT RECOVERY (CLEAN/(HOT+CLEAN))			24.4%													
ACTIVITY			PARTICLE			DISPERSED + PARTICLE										
TOTAL			111,576 kBq			HOT 83,704 kBq			CLEAN 4,551 kBq							
MAXIMUM/SORT			10,368 kBq			7,253 kBq			19 kBq							
MINIMUM/SORT			2 kBq			0 Bq			-24 kBq							
SPECIFIC ACTIVITY						1,338 Bq/kg			226 Bq/kg							
SORTS						1,480			UNEXP PAUSE							
20-SEC PROCESS PERIODS									TIME TIME							
ALL 80 ELEMENTS SORT (MD>0&MND=0)			1,098						None 07:55							
NONE (AD=0 & MD=0 & MND>0)			41						09:18							
SOME (AD>0&0<MD<MNDmax&MND<MNDmax)			341						10:49							
UNEXPLAINED RECORDS			0						13:27							
0<AD<1kBq & MD>0			0						15:21							
AD=0 & MD>0			0													
AD<0 & MD >0			0													
2-SEC COUNT PERIODS						14,800										
2-SEC RECORDS WITH SORTS			4,887													
2-SEC RECORDS WITHOUT SORTS			9,913													
TOTAL PROCESS RECORDS (2-s SORTS and 20-s PERIODS)						6,367										
NONPROCESSING RECORDS (Test, calibration, etc)						9										
2-SEC SORT DETECTORS																
1 DET			3,407 69.72%			5 DET 23			0.47%							
2 DET			1,122 22.96%			6 DET 0			0.00%							
3 DET			287 5.87%			7 DET 1			0.02%							
4 DET			48 0.98%			8 DET 1			0.02%							
AVERAGE TIME BETWEEN 2-SEC SORTS			8.7 sec													
FREQUENCY DISTRIBUTIONS																
1-GATE SORTS			ACT_ND		NUM		SPEC_A		FREQ%		ACT_P		NUM		FREQ%	
			(Bq)		(#)		(Bq/kg)				(kBq)		(#)			
DET SORTS FREQ%																
1 142 5.7%			-14000		5		-250 1.3%				4		489		10.0%	
2 427 17.2%			-12000		3		-215 0.8%				8		2,286		46.8%	
3 481 19.4%			-10000		10		-179 2.6%				12		794		16.2%	
4 471 19.0%			-8000		6		-143 1.5%				16		363		7.4%	
5 431 17.4%			-6000		10		-107 2.6%				20		185		3.8%	
6 337 13.6%			-4000		7		-72 1.8%				24		142		2.9%	
7 151 6.1%			-2000		3		-36 0.8%				28		81		1.7%	
8 36 1.5%			0		3		0 0.8%				32		78		1.6%	
TOTAL 2,476			2000		4		36 1.0%				36		63		1.3%	
			4000		7		72 1.8%				40		53		1.1%	
			6000		5		107 1.3%				44		34		0.7%	
2-GATE SORTS			8000		10		143 2.6%				48		32		0.7%	
DET SORTS FREQ%			10000		15		179 3.8%				52		30		0.6%	
9 292 12.1%			12000		33		215 8.4%				56		22		0.5%	
10 459 19.0%			14000		49		250 12.5%				60		25		0.5%	
11 535 22.2%			16000		82		286 21.0%				64		18		0.4%	
12 432 17.9%			18000		106		322 27.1%				68		15		0.3%	
13 381 15.8%			20000		33		358 8.4%				72		14		0.3%	
14 236 9.8%			22000		0		394 0.0%				76		14		0.3%	
15 76 3.2%			24000		0		429 0.0%				80		7		0.1%	
TOTAL 2,411			26000		0		465 0.0%				84		10		0.2%	
			>28000		0		0 0.0%				>84		132		2.7%	
			TOTAL		391						TOTAL		4,887			
EVENT TYPES			HPE		4,693		MPE		9,371		DISE		75,473			



SORTER 3				29-Apr-94					
SORTER SOIL DENSITY		1.20 tons/m ³		BACKGROUND		0.64 ± 0.03 c/s			
SOIL		CONTAMINATED		CLEAN		TOTAL			
MASS TOTAL		1.0 tons		78.0 tons		79.1 tons			
MAXIMUM/SORT		58.1 kg		55.9 kg					
MINIMUM/SORT		0.7 kg		51.0 kg					
VOLUME IN-GROUND		0.8 yd ³		61.9 yd ³		62.7 yd ³			
WEIGHT RECOVERY (CLEAN/(HOT+CLEAN))		98.7%							
ACTIVITY		PARTICLE		DISPERSED + PARTICLE					
TOTAL		9,407 kBq		3,684 kBq		7,029 kBq			
MAXIMUM/SORT		1,082 kBq		543 kBq		18 kBq			
MINIMUM/SORT		3 kBq		(3,366)Bq		-7 kBq			
SPECIFIC ACTIVITY				3,573 Bq/kg		90 Bq/kg			
SORTS									
20-SEC PROCESS PERIODS				1,414		UNEXP PAUSE			
ALL 80 ELEMENTS SORT (MD>0&MND=0)				7		TIME TIME			
NONE (AD=0 & MD=0 & MND>0)				912		07:06 07:01			
SOME (AD>0&0<MD<MNDmax&MND<MNDmax)				495		07:06 07:02			
UNEXPLAINED RECORDS				0		07:25 07:11			
0<AD<1kBq & MD>0				2		07:35 07:12			
AD=0 & MD>0				3		12:04 07:24			
AD<0 & MD >0				1		12:11 07:25			
2-SEC COUNT PERIODS				14,140		08:21			
2-SEC RECORDS WITH SORTS				417		10:53			
2-SEC RECORDS WITHOUT SORTS				13,723					
TOTAL PROCESS RECORDS (2-s SORTS and 20-s PERIODS)				1,831					
NONPROCESSING RECORDS (Test, calibration, etc)				75					
2-SEC SORT DETECTORS									
1 DET		329	78.90%	5 DET	1	0.24%			
2 DET		73	17.51%	6 DET	0	0.00%			
3 DET		13	3.12%	7 DET	0	0.00%			
4 DET		1	0.24%	8 DET	0	0.00%			
AVERAGE TIME BETWEEN 2-SEC SORTS				86.0 sec					
FREQUENCY DISTRIBUTIONS									
1-GATE SORTS			ACT_ND	NUM	SPEC_A	FREQ%	ACT_P	NUM	FREQ%
DET	SORTS	FREQ%	(Bq)	(#)	(Bq/kg)		(kBq)	(#)	
1	3	1.4%	-14000	1	-250	0.1%	4	27	6.5%
2	1	0.5%	-12000	3	-215	0.2%	8	211	50.6%
3	18	8.1%	-10000	9	-179	0.6%	12	63	15.1%
4	43	19.5%	-8000	16	-143	1.1%	16	24	5.8%
5	35	15.8%	-6000	18	-107	1.2%	20	17	4.1%
6	62	28.1%	-4000	28	-72	1.9%	24	20	4.8%
7	41	18.6%	-2000	44	-36	3.0%	28	9	2.2%
8	18	8.1%	0	92	0	6.2%	32	7	1.7%
TOTAL	221		2000	154	36	10.4%	36	4	1.0%
			4000	255	72	17.2%	40	4	1.0%
			6000	290	107	19.6%	44	2	0.5%
2-GATE SORTS			8000	271	143	18.3%	48	3	0.7%
DET	SORTS	FREQ%	10000	197	179	13.3%	52	1	0.2%
9	2	1.0%	12000	75	215	5.1%	56	2	0.5%
10	7	3.6%	14000	19	250	1.3%	60	0	0.0%
11	27	13.8%	16000	9	286	0.6%	64	1	0.2%
12	33	16.8%	18000	1	322	0.1%	68	2	0.5%
13	46	23.5%	20000	0	358	0.0%	72	0	0.0%
14	57	29.1%	22000	0	394	0.0%	76	2	0.5%
15	24	12.2%	24000	0	429	0.0%	80	1	0.2%
TOTAL	196		26000	0	465	0.0%	84	0	0.0%
			>28000	0	0	0.0%	>84	17	4.1%
			TOTAL	1,482			TOTAL	417	
EVENT TYPES		HPE	429	MPE	463	DISE	581		



SORTER 4

29-Apr-94

SORTER SOIL DENSITY		1.20 tons/m ³	BACKGROUND		0.64 ± 0.02 c/s
SOIL	CONTAMINATED		CLEAN	TOTAL	
MASS TOTAL	1.5 tons		84.5 tons	86.0 tons	
MAXIMUM/SORT	58.1 kg		55.9 kg		
MINIMUM/SORT	0.7 kg		48.9 kg		
VOLUME IN-GROUND	1.2 yd ³		67.0 yd ³	68.2 yd ³	
WEIGHT RECOVERY (CLEAN/(HOT+CLEAN))	98.2%				

ACTIVITY

TOTAL MAXIMUM/SORT MINIMUM/SORT SPECIFIC ACTIVITY	PARTICLE		DISPERSED + PARTICLE	
			HOT	CLEAN
	15,067 kBq		6,100 kBq	15,473 kBq
	1,015 kBq		653 kBq	20 kBq
	3 kBq		0 Bq	-8 kBq
			3,946 Bq/kg	183 Bq/kg

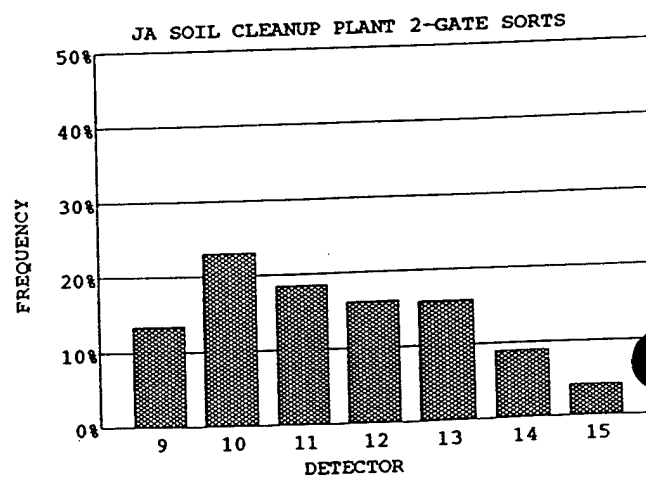
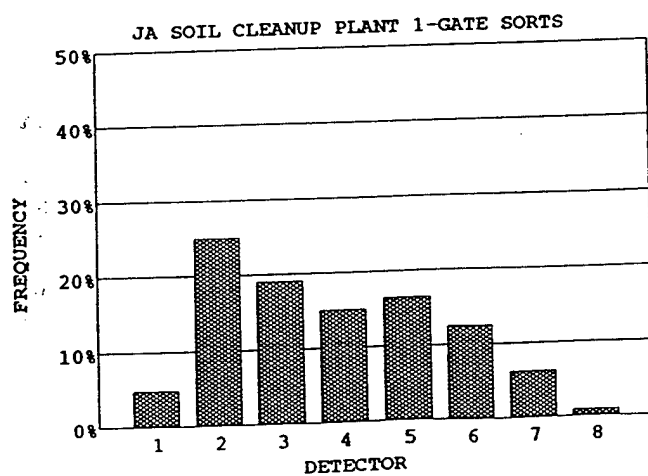
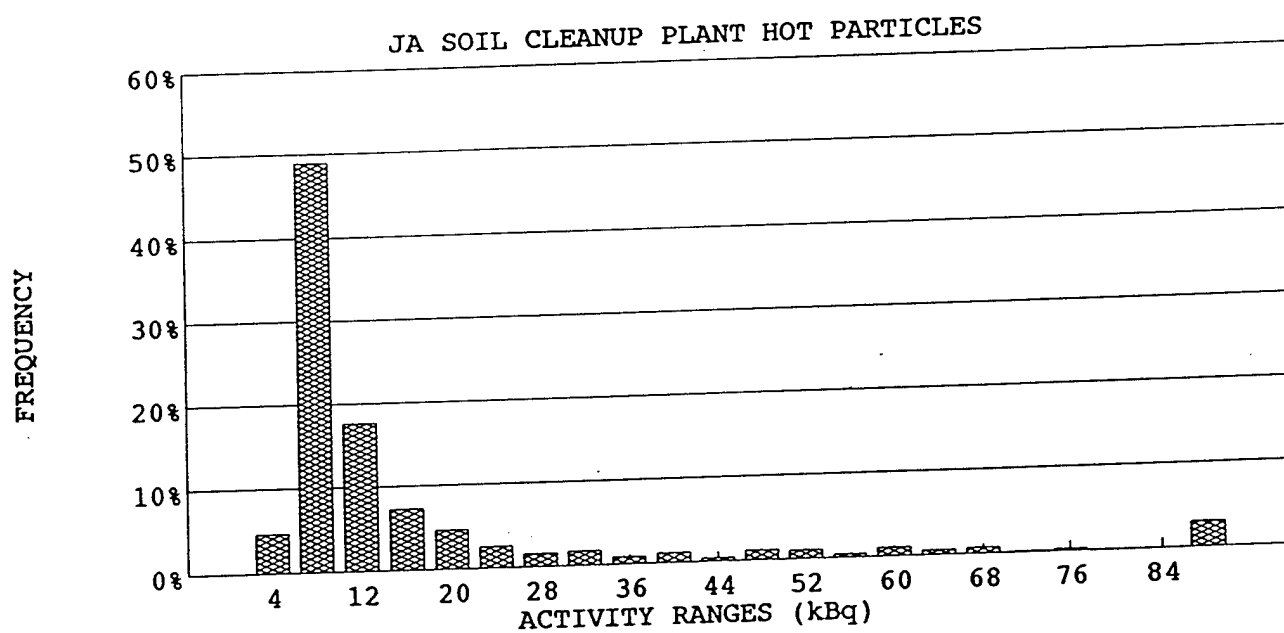
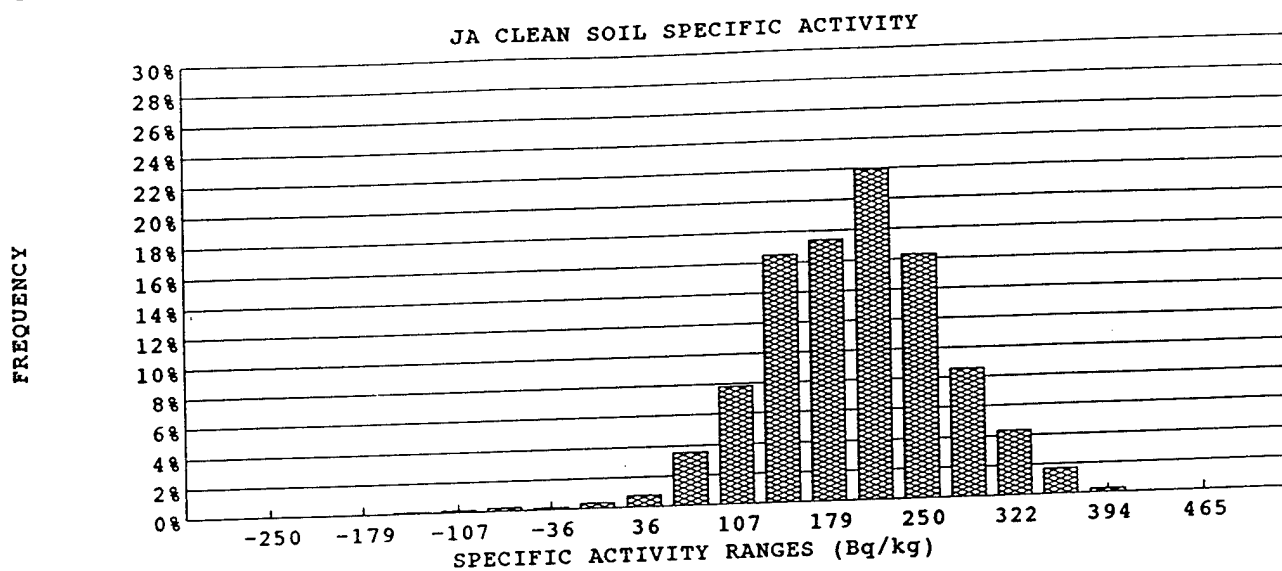
SORTS

20-SEC PROCESS PERIODS		1,539	UNEXP	PAUSE
ALL 80 ELEMENTS SORT (MD>0&MND=0)		13	TIME	TIME
NONE (AD=0 & MD=0 & MND>0)		937	None	07:11
SOME (AD>0&0<MD<MNDmax&MND<MNDmax)		589		10:52
UNEXPLAINED RECORDS		0		
0<AD<1kBq & MD>0		0		
AD=0 & MD>0		0		
AD<0 & MD >0		0		
2-SEC COUNT PERIODS		15,390		
2-SEC RECORDS WITH SORTS		687		
2-SEC RECORDS WITHOUT SORTS		14,703		
TOTAL PROCESS RECORDS (2-s SORTS and 20-s PERIODS)		2,226		
NONPROCESSING RECORDS (Test, calibration, etc)		2		
2-SEC SORT DETECTORS				
1 DET	501 72.93%	5 DET	2	0.29%
2 DET	147 21.40%	6 DET	0	0.00%
3 DET	31 4.51%	7 DET	0	0.00%
4 DET	6 0.87%	8 DET	0	0.00%
AVERAGE TIME BETWEEN 2-SEC SORTS		61.4 sec		

FREQUENCY DISTRIBUTIONS

1-GATE SORTS			ACT_ND	NUM	SPEC_A	FREQ%	ACT_P	NUM	FREQ%
DET	SORTS	FREQ%	(Bq)	(#)	(Bq/kg)		(kBq)	(#)	
1	17	4.8%	-14000	0	-250	0.0%	4	32	4.7%
2	88	25.0%	-12000	0	-215	0.0%	8	336	48.9%
3	67	19.0%	-10000	0	-179	0.0%	12	121	17.6%
4	53	15.1%	-8000	1	-143	0.1%	16	50	7.3%
5	58	16.5%	-6000	2	-107	0.1%	20	32	4.7%
6	44	12.5%	-4000	3	-72	0.2%	24	18	2.6%
7	22	6.3%	-2000	2	-36	0.1%	28	11	1.6%
8	3	0.9%	0	5	0	0.3%	32	12	1.7%
TOTAL	352		2000	12	36	0.8%	36	6	0.9%
			4000	54	72	3.5%	40	8	1.2%
			6000	120	107	7.9%	44	3	0.4%
2-GATE SORTS			8000	252	143	16.5%	48	8	1.2%
DET	SORTS	FREQ%	10000	266	179	17.4%	52	7	1.0%
9	45	13.4%	12000	335	215	21.9%	56	3	0.4%
10	77	23.0%	14000	249	250	16.3%	60	7	1.0%
11	62	18.5%	16000	131	286	8.6%	64	4	0.6%
12	54	16.1%	18000	66	322	4.3%	68	5	0.7%
13	53	15.8%	20000	26	358	1.7%	72	1	0.1%
14	30	9.0%	22000	4	394	0.3%	76	2	0.3%
15	14	4.2%	24000	0	429	0.0%	80	0	0.0%
TOTAL	335		26000	0	465	0.0%	84	0	0.0%
			>28000	0	0	0.0%	>84	21	3.1%
			TOTAL	1,528			TOTAL	687	
EVENT TYPES			HPE	698	MPE	474	DISE	1,038	

SORTER 4



WORK HISTORY - JA SOIL CLEANUP PLANT

30-Apr-94

WORK DAY START	05:00 AM	WORK DAY END	15:30 PM
LUNCH START	11:00 AM	TIME LOST DURING LUNCH	0.5 HR

	SORTER 1	SORTER 2	SORTER 3	SORTER 4	TOTAL (sorter hours)
WORK HOURS	10.0 hr	10.0 hr	10.0 hr	10.0 hr	40.0 hr
SORTER AVAILABLE HOURS	7.8 hr	7.8 hr	7.8 hr	7.8 hr	31.0 hr
SORTER START-UP	05:10	05:10	05:10	05:10	
START SOIL PROCESSING	05:27	05:28	05:30	05:30	
TIME REQUIRED TO START-UP	0.3 hr	0.3 hr	0.3 hr	0.3 hr	1.3 hr
SORTER SHUT-DOWN	13:25	13:25	13:25	13:25	
END SOIL PROCESSING	13:12	13:10	13:04	13:04	
TIME REQUIRED TO SHUT DOWN	0.2 hr	0.2 hr	0.3 hr	0.3 hr	1.1 hr
ACTUAL PROCESS HOURS	6.2 hr	6.2 hr	6.6 hr	6.2 hr	25.3 hr
DOWN-TIME	1.5 hr	1.6 hr	1.1 hr	1.5 hr	5.8 hr
SYSTEM PAUSE	1.5 hr	1.5 hr	1.0 hr	1.4 hr	5.5 hr
SORTER NONAVAILABLE TIME	2.3 hr	2.3 hr	2.3 hr	2.3 hr	9.0 hr
AUTHORIZED DELAY TIME	0.0 hr	0.0 hr	0.0 hr	0.0 hr	0.0 hr
PLANT PERFORMANCE					81.5%
PRODUCTIVITY					63.1%

PRODUCTIVITY

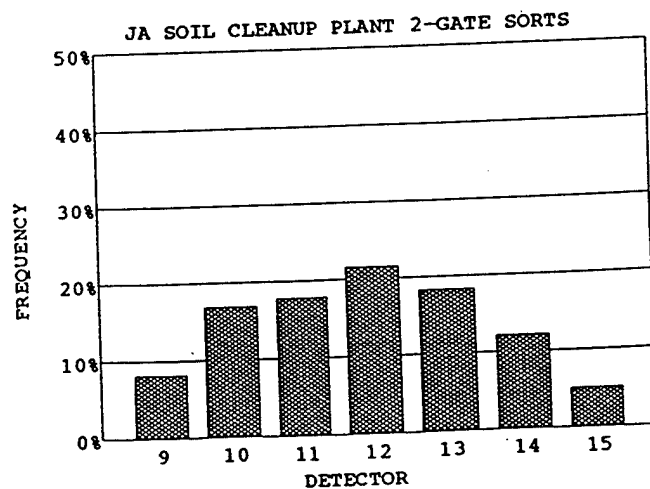
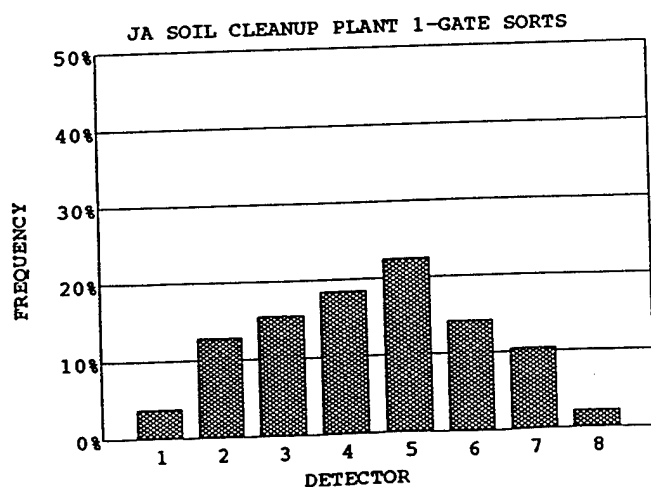
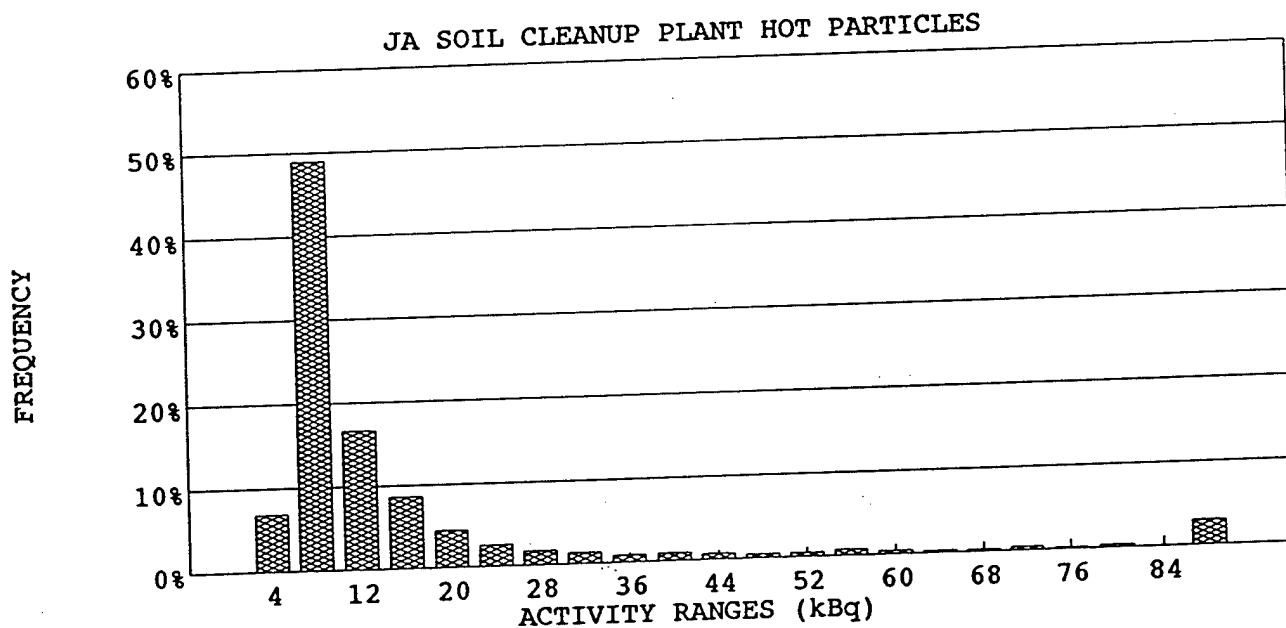
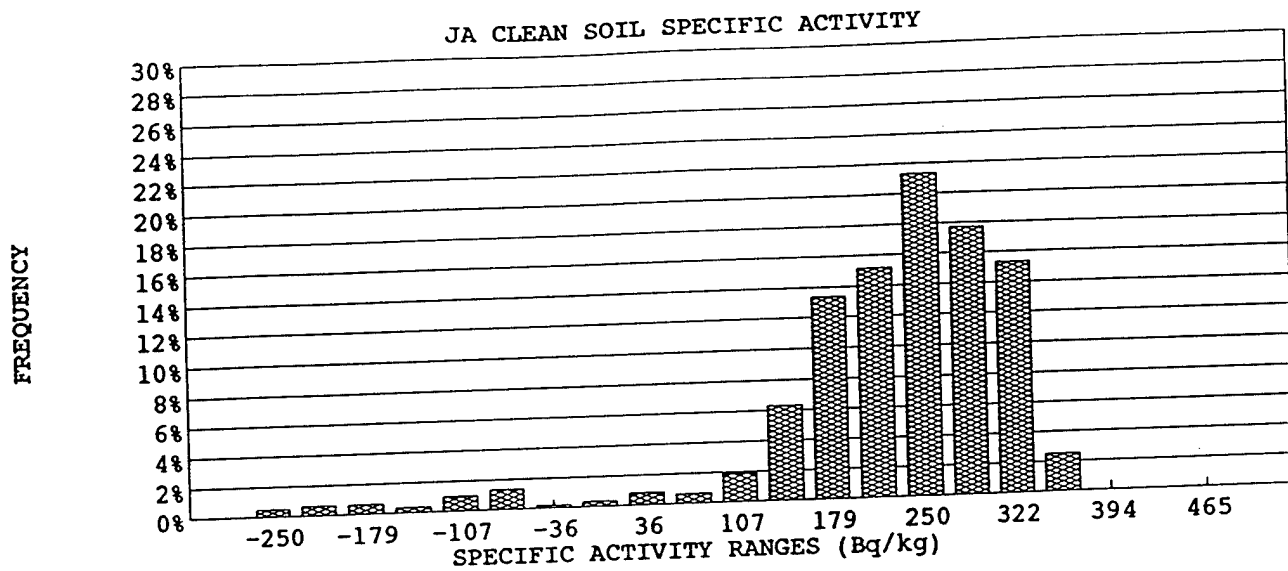
Date	30-Apr-94	Excused Delays for day (sorter-hrs)	0 hr
Contract day (from 6 Sep)	192	Excused delays for contract (sorter-hrs)	3,248 hr
Current Contract week	32	Excused delay days (plant-days)	81 days
		Excused delay months (plant-month)	3.12 months
Soil production for Day	254 MT		
Cumulative Soil Production for Week	1,152 MT	Percent of contract completed	42.1%
Total Soil production for contract		Tons Ahead or Behind Schedule	1,581 MT
Since 6 Sep 93	40,468 MT	Days ahead or behind schedule	5 days
Since 6 Aug 93	42,059 MT		
Total Soil production for project	68,345 MT		

MT = metric tons

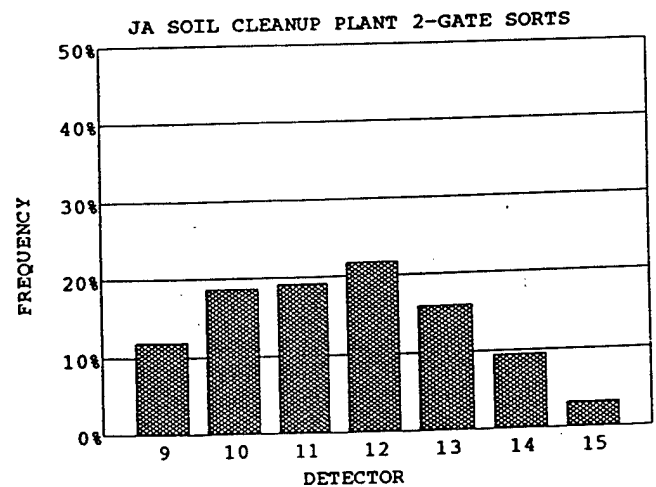
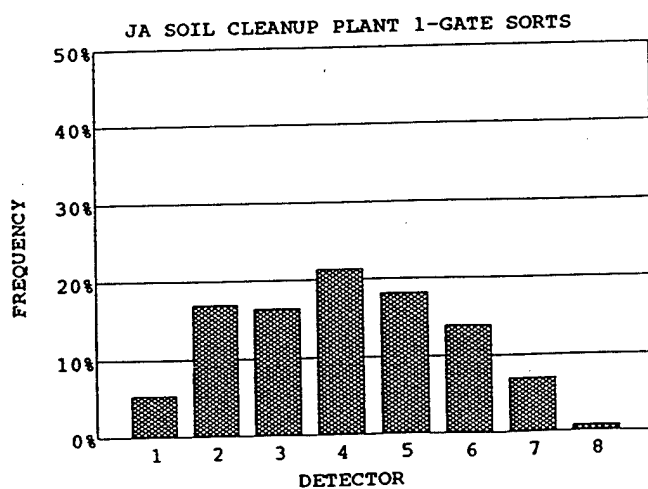
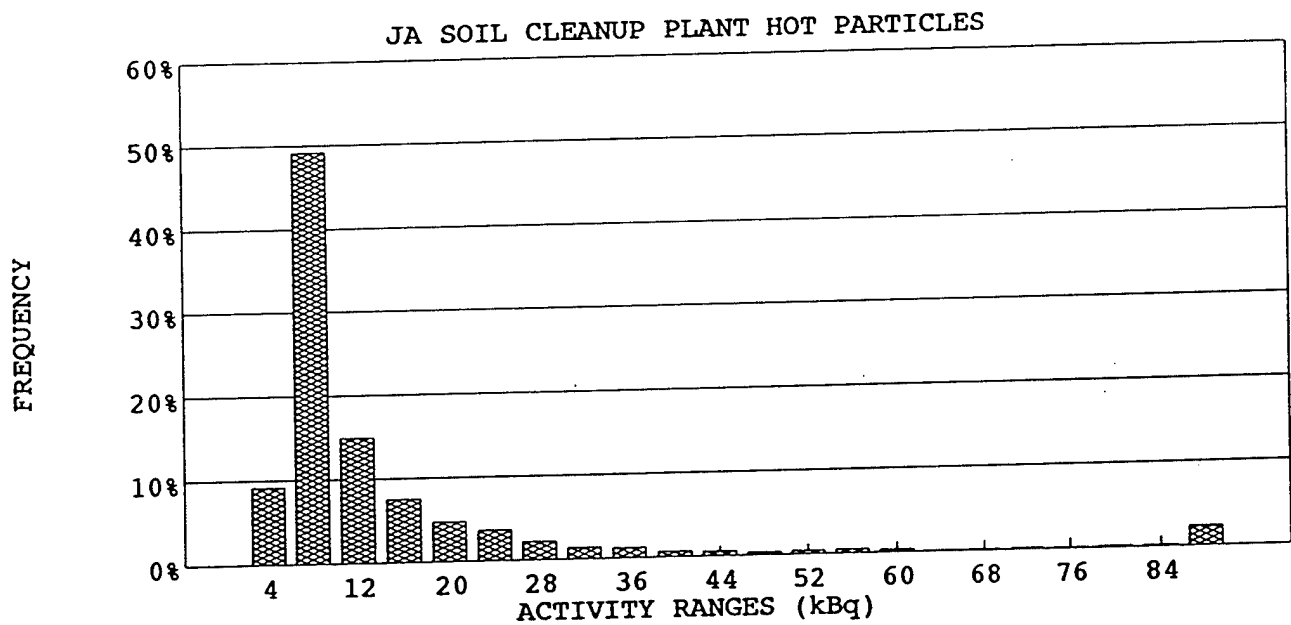
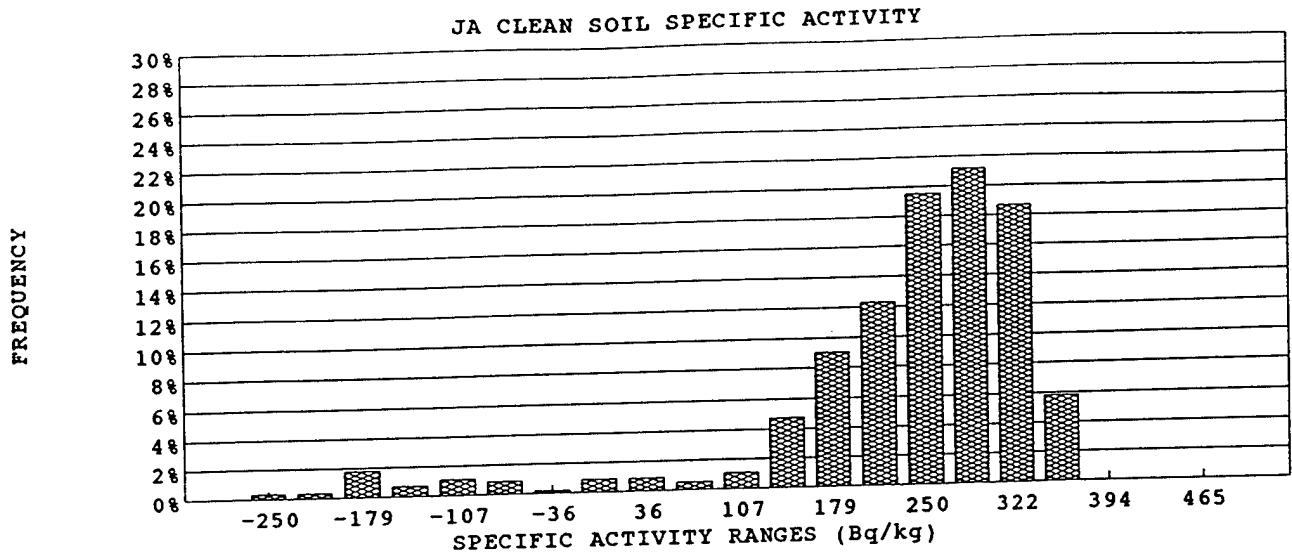
SORTER 1				30-Apr-94					
SORTER SOIL DENSITY		1.20 tons/m ³		BACKGROUND		0.66 ±	0.02 c/s		
SOIL		CONTAMINATED		CLEAN		TOTAL			
MASS TOTAL		31.1 tons		31.5 tons		62.7 tons			
MAXIMUM/SORT		58.1 kg		55.9 kg					
MINIMUM/SORT		0.7 kg		36.3 kg					
VOLUME IN-GROUND		24.7 yd ³		25.0 yd ³		49.7 yd ³			
WEIGHT RECOVERY (CLEAN/(HOT+CLEAN))		50.3%							
ACTIVITY		PARTICLE		DISPERSED + PARTICLE					
TOTAL		67,694 kBq		HOT 46,582 kBq		CLEAN 6,910 kBq			
MAXIMUM/SORT		6,561 kBq		4,357 kBq		19 kBq			
MINIMUM/SORT		2 kBq		(15,686)Bq		-16 kBq			
SPECIFIC ACTIVITY				1,496 Bq/kg		219 Bq/kg			
SORTS				1,121		UNEXP PAUSE			
20-SEC PROCESS PERIODS						TIME TIME			
ALL 80 ELEMENTS SORT (MD>0&MND=0)				522		12:20 09:13			
NONE (AD=0 & MD=0 & MND>0)				47		10:27			
SOME (AD>0&0<MD<MNDmax&MND<MNDmax)				552		10:52			
UNEXPLAINED RECORDS				0		12:16			
0<AD<1kBq & MD>0				0					
AD=0 & MD>0				0					
AD<0 & MD >0				1					
2-SEC COUNT PERIODS				11,210					
2-SEC RECORDS WITH SORTS				2,499					
2-SEC RECORDS WITHOUT SORTS				8,711					
TOTAL PROCESS RECORDS (2-s SORTS and 20-s PERIODS)				3,620					
NONPROCESSING RECORDS (Test, calibration, etc)				1					
2-SEC SORT DETECTORS									
1 DET		1,817	72.71%	5 DET	7	0.28%			
2 DET		549	21.97%	6 DET	0	0.00%			
3 DET		107	4.28%	7 DET	0	0.00%			
4 DET		19	0.76%	8 DET	0	0.00%			
AVERAGE TIME BETWEEN 2-SEC SORTS				12.3 sec					
FREQUENCY DISTRIBUTIONS									
1-GATE SORTS		ACT_ND	NUM	SPEC_A	FREQ%	ACT_P	NUM	FREQ%	
DET	SORTS	(Bq)	(#)	(Bq/kg)		(kBq)	(#)		
1	47	-14000	3	-250	0.5%	4	171	6.8%	
2	161	-12000	4	-215	0.7%	8	1,223	48.9%	
3	195	-10000	4	-179	0.7%	12	417	16.7%	
4	232	-8000	2	-143	0.3%	16	216	8.6%	
5	281	-6000	6	-107	1.0%	20	111	4.4%	
6	178	-4000	8	-72	1.3%	24	63	2.5%	
7	131	-2000	1	-36	0.2%	28	43	1.7%	
8	27	0	2	0	0.3%	32	34	1.4%	
TOTAL	1,252	2000	5	36	0.8%	36	21	0.8%	
		4000	4	72	0.7%	40	23	0.9%	
		6000	11	107	1.8%	44	17	0.7%	
2-GATE SORTS		8000	38	143	6.3%	48	12	0.5%	
DET	SORTS	FREQ%		179	13.3%	52	12	0.5%	
9	102	8.2%	10000	80	215	15.2%	56	18	0.7%
10	211	16.9%	12000	91	250	21.3%	60	10	0.4%
11	222	17.8%	14000	128	286	17.7%	64	6	0.2%
12	268	21.5%	16000	106	322	15.3%	68	6	0.2%
13	229	18.4%	18000	92	358	2.5%	72	9	0.4%
14	152	12.2%	20000	15	394	0.0%	76	3	0.1%
15	63	5.1%	22000	0	429	0.0%	80	8	0.3%
TOTAL	1,247		24000	0	465	0.0%	84	1	0.0%
			26000	0	0	0.0%	>84	75	3.0%
			>28000	0					
			TOTAL	600					
EVENT TYPES		HPE	2,417	MPE	6,910	DISE	35,218		

SORTER 1

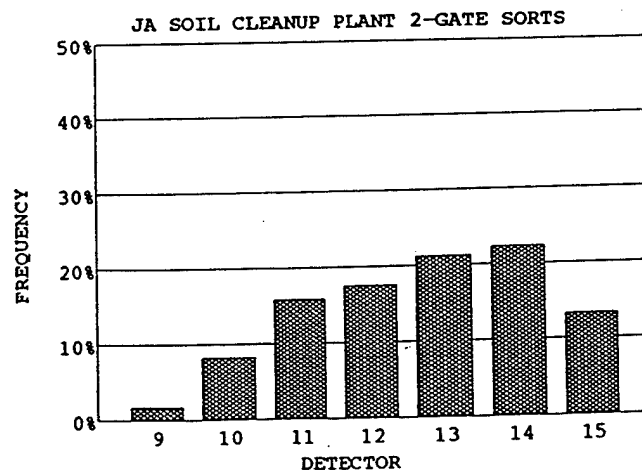
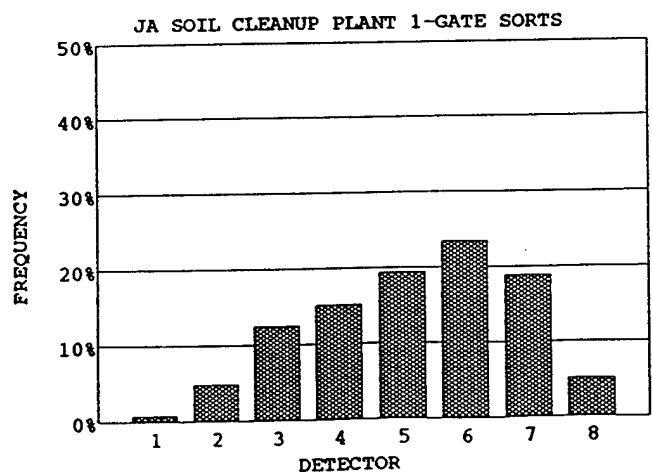
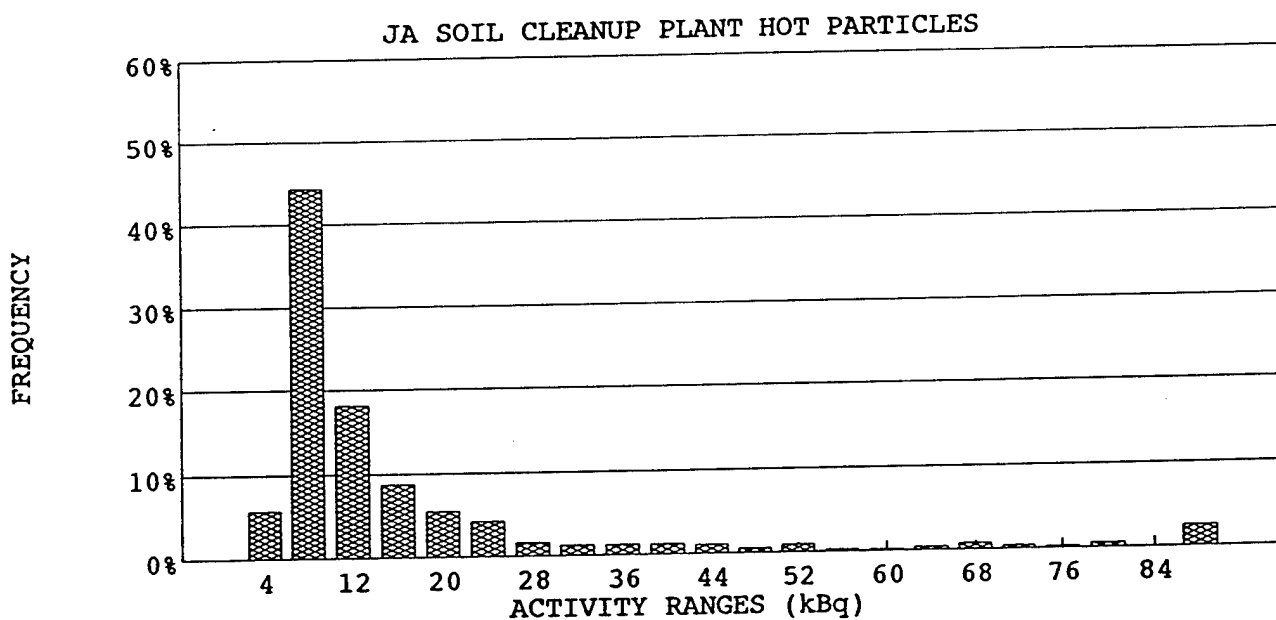
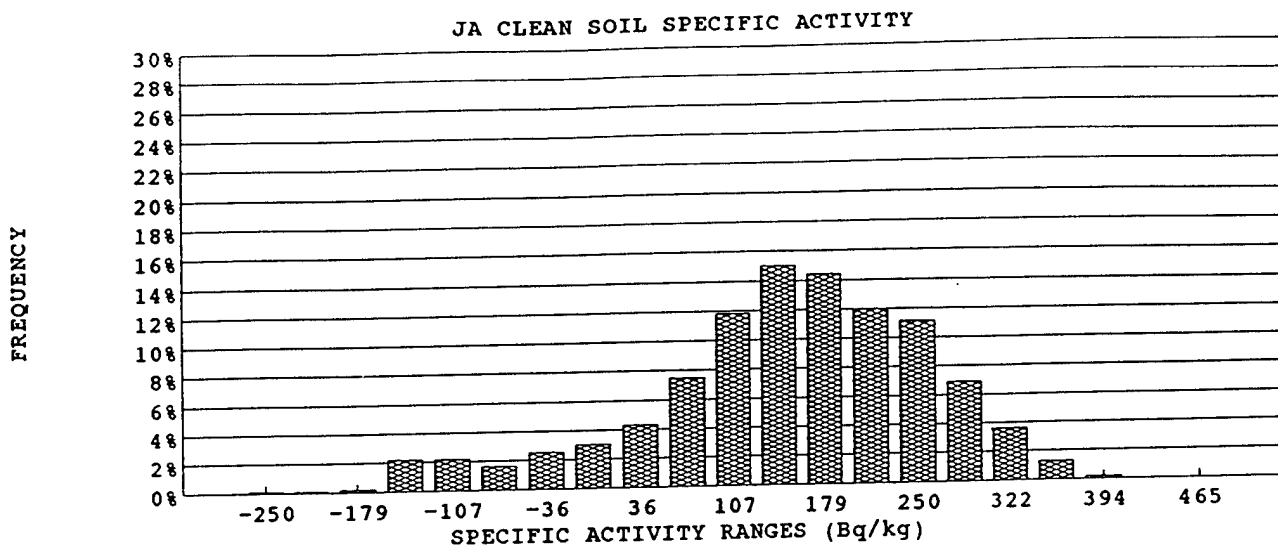
30-Apr-94



SORTER 2		30-Apr-94			
SORTER SOIL DENSITY		1.20 tons/m ³		BACKGROUND	
				0.76 ± 0.04 c/s	
SOIL		CONTAMINATED		CLEAN	TOTAL
MASS TOTAL		32.8 tons		29.5 tons	62.3 tons
MAXIMUM/SORT		58.1 kg		55.9 kg	
MINIMUM/SORT		0.7 kg		45.4 kg	
VOLUME IN-GROUND		26.0 yd ³		23.3 yd ³	49.4 yd ³
WEIGHT RECOVERY (CLEAN/(HOT+CLEAN))		47.3%			
ACTIVITY		DISPERSED + PARTICLE			
		PARTICLE	HOT	CLEAN	
TOTAL		48,892 kBq	38,730 kBq	6,708 kBq	
MAXIMUM/SORT		6,316 kBq	3,383 kBq	20 kBq	
MINIMUM/SORT		2 kBq	(30,889)Bq	-15 kBq	
SPECIFIC ACTIVITY			1,180 Bq/kg	228 Bq/kg	
SORTS					
20-SEC PROCESS PERIODS		1,114		UNEXP	PAUSE
ALL 80 ELEMENTS SORT (MD>0&MND=0)		566		TIME	TIME
NONE (AD=0 & MD=0 & MND>0)		73		12:20	09:13
SOME (AD>0&0<MD<MNDmax&MND<MNDmax)		475			10:27
UNEXPLAINED RECORDS		0			10:52
0<AD<1kBq & MD>0		0			12:16
AD=0 & MD>0		0			
AD<0 & MD >0		1			
2-SEC COUNT PERIODS		11,140			
2-SEC RECORDS WITH SORTS		2,474			
2-SEC RECORDS WITHOUT SORTS		8,666			
TOTAL PROCESS RECORDS (2-s SORTS and 20-s PERIODS)		3,588			
NONPROCESSING RECORDS (Test, calibration, etc)		5			
2-SEC SORT DETECTORS					
1 DET		1,784	72.11%	5 DET	4
2 DET		545	22.03%	6 DET	0
3 DET		118	4.77%	7 DET	0
4 DET		23	0.93%	8 DET	0
AVERAGE TIME BETWEEN 2-SEC SORTS		12.5 sec		0.16%	0.00%
				0.00%	0.00%
				0.00%	0.00%
				0.00%	0.00%
				0.00%	0.00%
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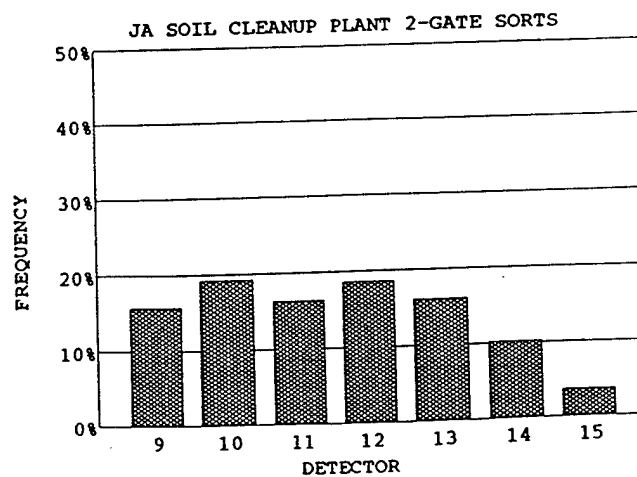
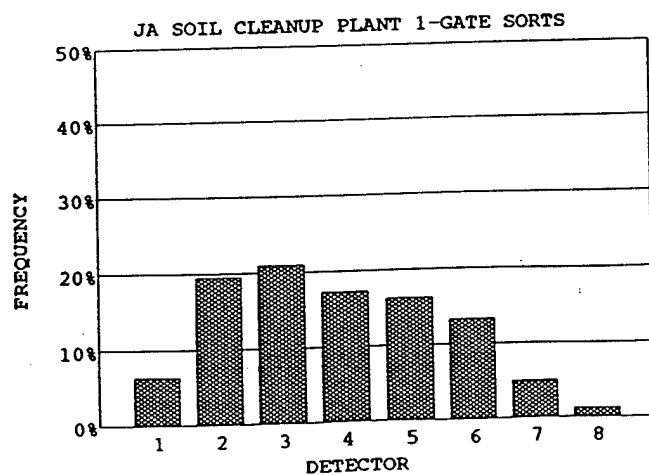
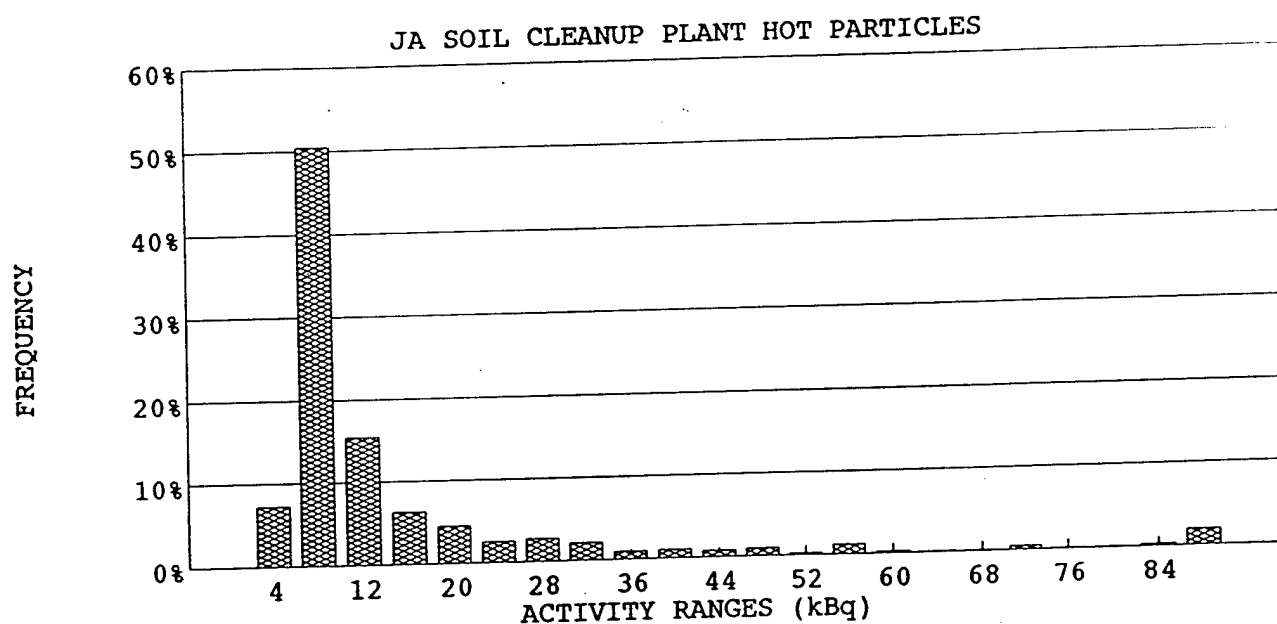
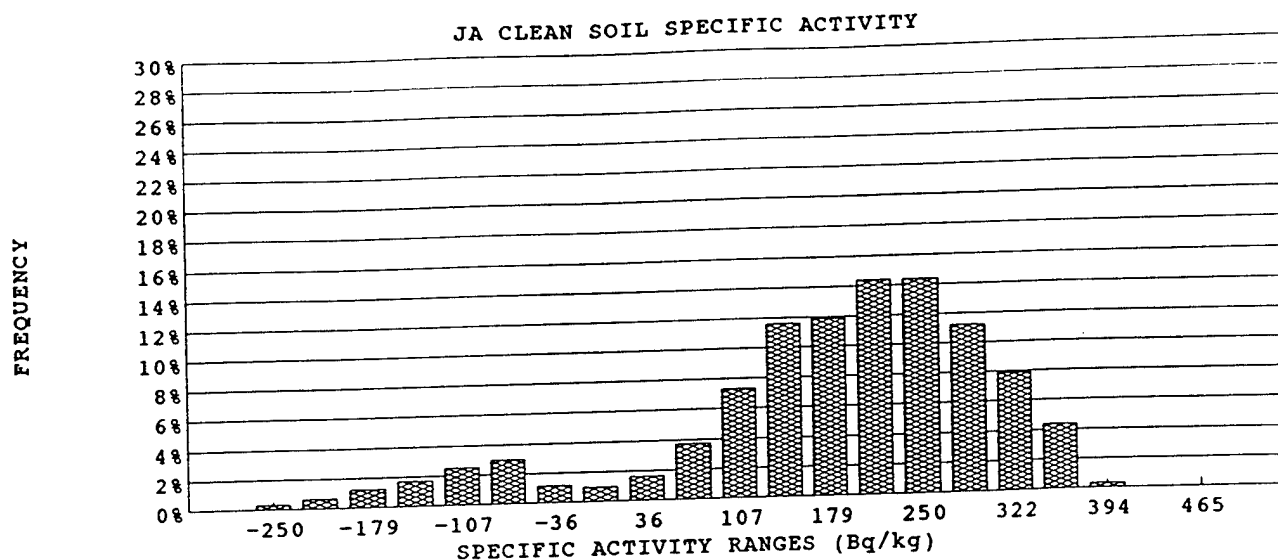


SORTER 3				30-Apr-94					
SORTER SOIL DENSITY			1.20 tons/m ³	BACKGROUND		0.63 ± 0.04 c/s			
SOIL		CONTAMINATED		CLEAN		TOTAL			
MASS TOTAL		1.5 tons		65.0 tons		66.5 tons			
MAXIMUM/SORT		55.9 kg		55.9 kg					
MINIMUM/SORT		0.7 kg		48.9 kg					
VOLUME IN-GROUND		1.2 yd ³		51.6 yd ³		52.7 yd ³			
WEIGHT RECOVERY (CLEAN/(HOT+CLEAN))		97.8%							
ACTIVITY		PARTICLE		DISPERSED + PARTICLE					
				HOT	CLEAN				
TOTAL		13,407 kBq		5,580 kBq	8,692 kBq				
MAXIMUM/SORT		484 kBq		298 kBq	20 kBq				
MINIMUM/SORT		3 kBq		0 Bq	-15 kBq				
SPECIFIC ACTIVITY				3,784 Bq/kg	134 Bq/kg				
SORTS									
20-SEC PROCESS PERIODS				1,190		UNEXP PAUSE			
ALL 80 ELEMENTS SORT (MD>0&MND=0)				9		TIME TIME			
NONE (AD=0 & MD=0 & MND>0)				581		08:46 10:33			
SOME (AD>0&0<MD<MNDmax&MND<MNDmax)				600		10:59			
UNEXPLAINED RECORDS				0					
0<AD<1kBq & MD>0				1					
AD=0 & MD>0				0					
AD<0 & MD >0				0					
2-SEC COUNT PERIODS				11,900					
2-SEC RECORDS WITH SORTS				730					
2-SEC RECORDS WITHOUT SORTS				11,170					
TOTAL PROCESS RECORDS (2-s SORTS and 20-s PERIODS)				1,920					
NONPROCESSING RECORDS (Test, calibration, etc)				5					
2-SEC SORT DETECTORS									
1 DET		532	72.88%	5 DET	1	0.14%			
2 DET		166	22.74%	6 DET	0	0.00%			
3 DET		29	3.97%	7 DET	0	0.00%			
4 DET		2	0.27%	8 DET	0	0.00%			
AVERAGE TIME BETWEEN 2-SEC SORTS				44.7 sec					
FREQUENCY DISTRIBUTIONS									
1-GATE SORTS			ACT_ND	NUM	SPEC_A	FREQ%	ACT_P	NUM	FREQ%
DET	SORTS	FREQ%	(Bq)	(#)	(Bq/kg)		(kBq)	(#)	
1	3	0.8%	-14000	1	-250	0.1%	4	42	5.8%
2	18	4.8%	-12000	1	-215	0.1%	8	324	44.4%
3	47	12.5%	-10000	2	-179	0.2%	12	132	18.1%
4	57	15.2%	-8000	26	-143	2.2%	16	64	8.8%
5	73	19.4%	-6000	26	-107	2.2%	20	40	5.5%
6	88	23.4%	-4000	19	-72	1.6%	24	31	4.2%
7	71	18.9%	-2000	30	-36	2.5%	28	12	1.6%
8	19	5.1%	0	36	0	3.0%	32	9	1.2%
TOTAL			2000	51	36	4.3%	36	9	1.2%
			4000	89	72	7.5%	40	9	1.2%
2-GATE SORTS			6000	140	107	11.8%	44	8	1.1%
DET	SORTS	FREQ%	8000	178	143	15.0%	48	4	0.5%
9	6	1.7%	10000	171	179	14.4%	52	7	1.0%
10	29	8.2%	12000	142	215	12.0%	56	2	0.3%
11	56	15.8%	14000	132	250	11.1%	60	1	0.1%
12	62	17.5%	16000	82	286	6.9%	64	3	0.4%
13	75	21.2%	18000	43	322	3.6%	68	6	0.8%
14	79	22.3%	20000	15	358	1.3%	72	3	0.4%
15	47	13.3%	22000	2	394	0.2%	76	2	0.3%
TOTAL			24000	0	429	0.0%	80	4	0.5%
			26000	0	465	0.0%	84	0	0.0%
			>28000	0	0	0.0%	>84	18	2.5%
			TOTAL	1,186			TOTAL	730	
EVENT TYPES		HPE	726	MPE	675	DISE	707		



SORTER 4				30-Apr-94				
SORTER SOIL DENSITY		1.20 tons/m ³		BACKGROUND				
				0.63 ± 0.03 c/s				
SOIL		CONTAMINATED		CLEAN	TOTAL			
MASS TOTAL		3.6 tons		59.0 tons	62.6 tons			
MAXIMUM/SORT		58.1 kg		55.9 kg				
MINIMUM/SORT		0.7 kg		51.0 kg				
VOLUME IN-GROUND		2.9 yd ³		46.8 yd ³	49.6 yd ³			
WEIGHT RECOVERY (CLEAN/(HOT+CLEAN))		94.2%						
ACTIVITY		DISPERSED + PARTICLE						
		PARTICLE	HOT	CLEAN				
TOTAL		10,691 kBq	5,706 kBq	9,676 kBq				
MAXIMUM/SORT		251 kBq	160 kBq	20 kBq				
MINIMUM/SORT		3 kBq	0 Bq	-16 kBq				
SPECIFIC ACTIVITY			1,576 Bq/kg	164 Bq/kg				
SORTS			1,120	UNEXP	PAUSE			
20-SEC PROCESS PERIODS				TIME	TIME			
ALL 80 ELEMENTS SORT (MD>0&MND=0)		48		07:14	07:50			
NONE (AD=0 & MD=0 & MND>0)		500		08:10	08:13			
SOME (AD>0&0<MD<MNDmax&MND<MNDmax)		572		08:17	08:42			
UNEXPLAINED RECORDS		0		09:10	08:45			
0<AD<1kBq & MD>0		4		10:09	08:51			
AD=0 & MD>0		2		11:53	09:06			
AD<0 & MD >0		0		12:40	09:56			
2-SEC COUNT PERIODS			11,200					
2-SEC RECORDS WITH SORTS		759			09:59			
2-SEC RECORDS WITHOUT SORTS		10,441			10:05			
TOTAL PROCESS RECORDS (2-s SORTS and 20-s PERIODS)			1,879		10:42			
NONPROCESSING RECORDS (Test, calibration, etc)			5		10:59			
2-SEC SORT DETECTORS								
1 DET	572 75.36%	5 DET	1	0.13%				
2 DET	164 21.61%	6 DET	0	0.00%				
3 DET	20 2.64%	7 DET	0	0.00%				
4 DET	2 0.26%	8 DET	0	0.00%				
AVERAGE TIME BETWEEN 2-SEC SORTS		39.2 sec						
FREQUENCY DISTRIBUTIONS								
1-GATE SORTS		ACT_ND	NUM	SPEC_A	FREQ%	ACT_P	NUM	FREQ%
DET	SORTS	(Bq)	(#)	(Bq/kg)		(kBq)	(#)	
1	26	-14000	3	-250	0.3%	4	55	7.2%
2	79	-12000	7	-215	0.6%	8	383	50.5%
3	85	-10000	13	-179	1.2%	12	117	15.4%
4	70	-8000	18	-143	1.7%	16	48	6.3%
5	66	-6000	27	-107	2.5%	20	34	4.5%
6	54	-4000	32	-72	3.0%	24	19	2.5%
7	20	-2000	12	-36	1.1%	28	21	2.8%
8	5	0	10	0	0.9%	32	16	2.1%
TOTAL	405	2000	17	36	1.6%	36	7	0.9%
2-GATE SORTS		4000	40	72	3.7%	40	8	1.1%
DET	SORTS	6000	79	107	7.3%	44	6	0.8%
9	56	8000	125	143	11.6%	48	7	0.9%
10	68	10000	128	179	11.9%	52	2	0.3%
11	58	12000	155	215	14.4%	56	9	1.2%
12	66	14000	155	250	14.4%	60	2	0.3%
13	57	16000	121	286	11.2%	64	1	0.1%
14	36	18000	85	322	7.9%	68	1	0.1%
15	13	20000	47	358	4.4%	72	4	0.5%
TOTAL	354	22000	3	394	0.3%	76	1	0.1%
		24000	0	429	0.0%	80	1	0.1%
		26000	0	465	0.0%	84	2	0.3%
		>28000	0	0	0.0%	>84	15	2.0%
		TOTAL	1,077			TOTAL	759	
EVENT TYPES		HPE	MPE	609	DISE	3,801		

SORTER 4



APPENDIX D

ACRONYMS AND SYMBOLS

AC	-	Cumulative activity present in soil which was found to meet the release criteria
ACT_ND	-	Activity Not Diverted
ACT_P	-	Activity Plutonium
AH	-	Total activity diverted - due to distributed contamination present in the soil in excess of 500 Bq/kg
ALARA	-	As Low As Reasonable Achievable
AP	-	Total activity diverted - due to particles present in the soil which exceeded 5,000 Bq
BKG	-	Background
Bq	-	Bequerels
CFM	-	Cubic Feet Per Minute
cpm	-	Counts Per Minute
DISE	-	Distributed Event
DNA	-	Defense Nuclear Agency
dps	-	Disintegrations Per Second
FCJ	-	Field Command, Johnston Atoll
FIDLER	-	Field Instrument for Detection of Low Energy Radiation
HPE	-	Hot Particle Event
JA	-	Johnston Atoll
KeV	-	Kilo Electron Volts
kg	-	Kilogram
LE-1	-	Launch Emplacement One
LE-2	-	Launch Emplacement Two
ml	-	Milliliter
MPE	-	Multiple Particle Event
mt	-	Metric Tons
PHA	-	Pulse Height Amplitude
PPE	-	Personal Protective Equipment
QC	-	Quality Control
RCA	-	Radiologically Controlled Area
RSN	-	Raytheon Services Nevada
SA	-	Specific Activity, Bequerels Per Kilogram
SH	-	Sorter-Hours
SPEC_A	-	Specific Activity
TRU	-	Transuranic
WR	-	Percent Weight Reduction
WS1	-	Weigh Scale, Unit 1 & 2 Grizzly Feed Belt
WS2	-	Weigh Scale, Unit 1 & 2 Sorter Feed Belt
WS3	-	Weigh Scale, Unit 1 & 2 Clean Soil Belt
WS4	-	Weigh Scale, Unit 1 & 2 Diverted Soil Belt
WS5	-	Weigh Scale, Unit 3 & 4 Sorter Feed Belt
WS6	-	Weigh Scale, Unit 3 & 4 Clean Soil Belt
WS7	-	Weigh Scale, Unit 3 & 4 Diverted Soil Belt
WS8	-	Weigh Scale, Wet-End Feed Belt

APPENDIX E

DEFINITIONS

- Authorized Delay - Time during the normal 60 hour work specified in the contract in which soil processing is not accomplished due to circumstances beyond the control of the contractor, as approved by DNA.
- These include, but are not limited to:
- Inclement weather,
Plant modifications requested by DNA,
Plant testing required by DNA, and
Lack of government furnished equipment or services as specified in the contract.
- Becquerel - A unit in the International System of Units (SI) for the measurement of radioactivity equivalent to one Transformation Per Second.
- Clean Soil - Soil which has been verified to contain less than 500 Bq/kg total TRU activity averaged over .1 m³ of soil and no discrete radioactive particle of 5000 Bq or more.
- Down-Time - Time during the normal 60 hour work week specified in the contract in which soil processing is not accomplished due to plant maintenance or repair. Normal start-up and shut-down and Authorized Delay Time does not count as Down-Time. The contract requires that Down-Time be maintained less than 40%.
- Hot Particle - An individual particle whose activity level is 5000 Bq or greater.
- Transuranic - Element with an atomic number higher than that of Uranium (e.g. Plutonium, Americium).
- 2-Second Sort Detection - When a hot particle passes underneath a detector, the detector generates a signal to the computer, which in turn activates one of the eight diversion chutes for two seconds, as required by the Segmented Gate System.

DISTRIBUTION LIST

DSWA-TR-95-100

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